july
december 1957

Vol. 159

ENGINEERING NEWS-RECORD

Serving The Entire Construction Industry

Index

. . . of editorial content

McGraw-Hill Publishing Co.
330 West 42nd Street, New York 36, N. Y.

How to Use this Index

Every article appearing in *ENGINEERING NEWS-RECORD* during the last six months of 1957 is indexed in this volume with the following exceptions: Washington Observer, Obituaries, Pamphlets and New Publications.

All articles are indexed **alphabetically** by subject. Under each heading entries are listed **chronologically** as they appeared.

Many important headings are divided into subheadings, e. g.: BRIDGES—geographically by states or countries; CITIES—by name; BUILDINGS—by type (Churches, Garages, etc); LABOR—by subject (Contracts, Strikes, etc.).

The latter part of this index contains AUTHORS, PERSONALITIES, COMPANIES. Here are listed the names of people who are the subject of articles, as well as names of authors of by-lined articles and published letters. Under the COMPANIES heading, equipment manufacturers' names will be found, also firms about which articles were written. Individuals or firms mentioned in feature articles dealing with various construction projects are not indexed by their names.

Items which describe new types of equipment are indexed twice: under the manufacturer's name in the COMPANIES section, and under the proper subject, e.g.: SCAFFOLDING, EQUIPMENT,—Tractors.

Entries concerning only particular projects or firms are not repeated under the general heading. For example, an article about the Utah Construction Co. appears only in the COMPANIES section of the Index and will not be found under the heading CONTRACTORS. A news item about bonds issued for Edsel Ford Expressway will be listed in the Michigan section of HIGHWAYS and will not be found under: CONSTRUCTION,—Financing, where general stories on bonds are listed.

See means that all entries on the subject will be found under another heading, thus:

EROSION see: SOIL MECHANICS

See also means that a related heading should also be checked, thus:

SEWAGE see also: WATER POLLUTION

The following abbreviations and signs are used:

RC — Readers' Comment
CW — Construction Week
NP — New Product
B — News Brief
e — Editorial
* — Article with many illustrations
* — Illustrated article (If asterisk precedes entry, reference is to a picture with caption only)

If you would like any information about material which ENR has published, do not hesitate to make direct inquiry by mail or telephone to 330 West 42nd Street, New York 36, N. Y.; telephone LOngacre 4-3000 extension 259.

ENGINEERING NEWS-RECORD INDEX

July-December 1957

Ⓐ

ACCIDENTS see also: EXPLOSIVES; FIRE; FLOODS; WIND

Formboards cause deaths; Calif takes action. CW p17 — Jul 4
Orlando school roof collapse caused by poor design,*,diags. p28 — Jul 11
Lightning destroys section of Penna hwy,*. p24 — Aug 1
Mexico City bldgs hit by earthquake,*. p27 — Aug 1
Mexico City earthquake: a disaster to learn by. e p128 — Aug 8
Detonator magazine blows up at Boston sewage tunnel job. p30 — Aug 15
Mexico City earthquake reveals design and construction defects,**. p38 — Aug 15
Blast at Oswego tunnel, N.Y., kills four workers. p24 — Aug 22
Learning from Mexico City earthquake. e p128 — Aug 22
Official estimate of Mexico City earthquake damage. CW p19 — Sep 12
Two killed testing Ind. sewage pumping plant. p24 — Sep 12
Helicopter rescue after dredge and freighter collision, Oregon. p75 — Sep 26
Peace River bridge failure,*. p26 — Oct 24
Puzzling collapse of water tank roof, Ill. CW p15 — Nov 21
Orlando school failure report not official. RC p12 — Nov 28
Jackson, Mich, bldg failure report misses point. e p156 — Dec 12

ADHESIVES

Silicone rubber tape sticks to itself. NP p53 — Oct 31
Adhesive has high bonding strength,*. NP p53 — Oct 31
Adhesives and sealants assume key importance. p24 — Dec 12

AEC (Atomic Energy Commission) see: ATOMIC ENERGY

AIR CONDITIONING, HEATING, VENTILATION

Air conditioner fits all convector heating systems,*. NP p87 — Jul 11
Cars are air-conditioned at drive-in restaurant, Las Vegas,*. p20 — Jul 25
New plant heating system, N. J.,*. p44 — Jul 25
Air system for St. Louis home heats and cools efficiently. p73 — Jul 25
Syracuse State office bldg air-conditioned at time of erection,*. p28 — Aug 1
Pump uses cold air for Sylvania research center heating. B p30 — Aug 8
Air conditioning for Stewart Air Force Base houses, Tenn. B p34 — Aug 15
Solar heated home nears completion,*. p97 — Sep 12
Conference to discuss indoor climate control. p98 — Sep 12
Home air system. RC p12 — Sep 19
Air conditioning compared to total cost to own and operate bldg, table. p283 — Oct 17
Portable space heater can warm large areas. NP p59 — Oct 24
Solar house design winner. B p33 — Nov 7
Methods in Dartford Tunnel, England, map, diags,*. p58 — Nov 14

AIR FORCE see also: AIRPORTS; BUILDINGS, Hangars

Congressional hearings on asphalt vs. portland cement for runways. p26 — Jul 11
To operate newest Texas Tower near Sandy Hook,**. p26 — Jul 18
Academy chapel designed approved,*. p25 — Aug 22
Research Command concocts humorous pidgin Germany vocabulary. e p168 — Sep 12
Academy construction ahead of schedule. B p33 — Nov 7
Dispersal of bases, missile sites will be a big construction market,*, map, table. p21 — Dec 19

AIR POLLUTION

Delaware legislature establishes Air Pollution Authority. p140 — Jul 11
Tons of dust fall over cities. B p30 — Jul 25
Report on Denver air pollution. B p34 — Aug 15
Canadian air sampling network. B p32 — Sep 12
Fractional sublimation method developed to break down smog. p61 — Oct 24
Cincinnati Taft project studies,*. p52 — Nov 28

AIRPORTS

Runways unit prices. pp243-248 — Oct 17
Base dispersal, missile sites will be a big construction market,*, map, table. p21 — Dec 19
• American
  Alabama
    Birmingham Airport taxiways unit prices. p81 — Aug 8
  Arizona
    High engineering costs for Sky Harbor airport improvements. CW p17 — Aug 29
  California
    Navy contracts to convert San Clemente Island into jet airfield. p33 — Jul 18
  Colorado
    Walker Field runway and lighting unit prices. p101 — Sep 12
  Illinois
    Scott Field runway unit prices. p81 — Aug 8
  Maine
    Dow AFB runway: good use of poor materials,**. p40 — Nov 14
  Maryland
    Package-type steel hangar for Baltimore's International,*. p27 — Jul 11
  Michigan
    Technical approval given to Detroit's Northeast airport. p24 — Oct 3
  Minnesota
    Crystal airport enlarged; unit prices. p83 — Aug 22
  New Hampshire
    Six banks join to provide loan for Portsmouth Air Base housing. p138 — Sep 5
  New York
    La Guardia's outmoded terminal to be rebuilt,*. p25 — Jul 4
    Vaulted roof planned for Idlewild terminal,*. p28 — Nov 14
    New Idlewild terminal opens,*. p29 — Dec 5
  Ohio
    Downtown airport in Cleveland; unit prices. p104 — Sep 19
  Oklahoma
    Tulsa airport reconstruction begins. p24 — Jul. 25
  South Carolina
    Completes runway at Charleston base; unit prices. p243 — Oct 17
  Washington
    Runway extension for Seattle-Tacoma airport; unit prices. p68 — Oct 3
• Foreign
  Africa
    •New terminal for Kano International Airport, Nigeria. p48 — Jul 4
    Chain of 25 airports planned for Ethiopia. p88 — Sep 19
  Australia
    Darwin airport gets added runway,* p52 — Dec 26
  Bolivia
    US to loan $2.6m for airport work. p57 — Aug 29
  Canada
    Stephenville, Newfoundland, gets new terminal. p64 — Jul 18
  Japan
    Airports to be improved. p70 — Nov 7
  Middle East
    Contract signed for Afghanistan airport. p75 — Nov 7
  Spain
    Rota airbase opens for business. p27 — Sep 12
    Spanish bases construction scoreboard. p27 — Sep 12

ALUMINUM

Foamed concrete contains aluminum. NP p90 — Jul 11
World consortium will investigate Congo River works. p62 — Jul 18
Vertical louvers face Beverly Hill office bldg,*. p28 — Sep 5

AMERICAN SOCIETY OF CIVIL ENGINEERS see: ENGINEERING, Societies

APARTMENTS see: BUILDINGS, Apartments

APWA (American Public Works Asso) see: PUBLIC WORKS

ARCHES see: BRIDGES; CONCRETE; LUMBER; ROOFS; STEEL

ARCHITECTS see: ENGINEERING

ARCTIC CONSTRUCTION see: FROST, ICE, SNOW

ARENAS see: BUILDINGS, Arenas

ASPHALT see also: PAVING

Asphalt for Air Force runways proposed by Congress. p26 — Jul 11
Groins successfully protect Maryland beach,**. p42 — Aug 22
Heater planer design stresses safety,*. NP p88 — Sep 12
Field tests for neoprene in asphalt,*. p61 — Oct 24
Fast slope paving on Montgomery Dam, diag,*. p36 — Dec 5
Asphalt plant for hard to reach places,*. NP p86 — Dec 5

ASSOCIATED GENERAL CONTRACTORS

Geo. T. McDonald, new director hway, heavy construction div. p93 — Jul 25
Midyear meeting; F. Heidenfels to become pres.,*. p29 — Sep 19
Urge reforms in use of union power, p154 — Sep 19

ATOMIC ENERGY, RADIATION see also: POWER

France adds two reactors to Marcoule nuclear energy center,*. p82 — Jul 11
Mich. fast breeder reactor under fire from AFL-CIO. p146 — Jul 11
Tracers to determine effects of sand movements, Australian harbors. CW p17 — Jul 25
Southwest utilities plan a prototype plant. p24 — Jul 25
A-power: public or private?; mounting construction market,*, table, graphs. p21 — Aug 1
Norwegian reactor plant built underground. p55 — Aug 22
World's largest nuclear plant to start in Hunterston, Scotland. p57 — Aug 29
AEC previews engineering test reactor in Idaho,*. p24 — Oct 3
Mobile military reactor plants. CW p17 — Oct 25
Dresden nuclear power sphere going up, Chicago,*. p22 — Nov 21
AEC Germantown HQ bldg dedicated,*. p26 — Nov 21
AEC Los Alamos bldg unit prices. p88 — Nov 21
Unions protest but construction proceeds on AEC reactor, Mich,*. p112 — Nov 21
Jumbled project organization in nuclear power business, diag. p21 — Nov 28
British close to competitive A-Power, diags. p73 — Dec 5
Cost of A-power: AEC invites program examination. p172 — Dec 5
Shippingport "fires up". e p156 — Dec 12
No more lump contracts for nuclear G.E. work. CW p17 — Dec 19
British to build nuclear plant in Italy. p57 — Dec 19
Progress is good at first of big British A-plants,*. p59 — Dec 26
High costs hinder A-power development. p76 — Dec 26

AUDITORIUM: see: BUILDINGS, Arenas, Auditoriums

AUGERS see: EQUIPMENT, Drills

AUTOMATION see: ELECTRONICS

AWARDS, SCHOLARSHIPS see also: EDUCATION; LABOR, Apprenticeship

Safety awards given to West Coast firms. p28 — Sep 5
W. C. Gribble receives award for Army A-plant work. p67 — Sep 12
Honorary memberships presented at ASCE annual meeting,*. p21 — Oct 25
S. Turner named for 1957 Hoover Medal. p59 — Oct 31
AICE award of merit goes to Dr. Quarles. p59 — Oct 31
P. F. Connolly, F. Donaldson, Moles 1958 awardees,*. p27 — Nov 7
Armco scholarship to be handled by NSPE. p116 — Dec 5
First Raymond Pile scholarship awarded. p98 — Dec 12
Hwy study fellowships offered at Yale. p48 — Dec 26
Hathaway and Grove receive Army's highest civilian award. p54 — Dec 26
Apprenticeship award in plumbing presented in Florida,*. p79 — Dec 26

B

BEACH PROTECTION see: SOIL MECHANICS, EROSION

BEAMS, GIRDERS, TRUSSES see also: CONCRETE, Frames; LUMBER; STEEL

Roof trusses analyzed by computer, diag. p60 Aug 15
T-slab cantilevers form Fla motel balconies,*. p26 Aug 22
Virginia plate girder viaducts unit prices. p101 Sep 12
How beam design affects prestressed concrete bridge costs, diags, tables. p326 Oct 17
and RCs pp8-15 Dec 5
Plate girder record set at Conn Turnpike bridge,** p27 Oct 31
North Carolina girder unit prices. p62 Oct 31
Laminated wood beams span 130 ft at Ore. college,*. p63 Nov 7
Watch those splices: failure of roof beam. e p168 Nov 7
Splicing beams at NYC subway job,*, diag. p38 Dec 19

BIDS, CONTRACTS, CONTRACTORS

Low bidders, Eagle Dam, protest Corps rejection. [illegible] Jul 11
Contractor [illegible] established in Hawaii. p137 Jul 11
Engineering [illegible] a big business that's getting [illegible] p74 Aug 1
Pa. contractors owe $5m in taxes on state projects. p78 Aug 1
Subcontractor surety bonds under the Miller Act. RC p11 Aug 8
Public works contracts may be let without bidding, Baltimore court rules. p106 Aug 8
Contractor failures decline again. CW p21 Aug 15
Two big contractors join forces in England. p74 Aug 15
Milwaukee gets tough on completion schedules, contractors fined. p26 Sep 5
Toronto bid mistake. p147 Sep 19
Contractors' baseball teams. CW p17, and p21 Sep 26 Oct 3
Contractors group to study industry,*. p26 Oct 10
A surety bond check list, tables. p177 Oct 17
Slow payments raise costs, lower profits for hwy contractors; table. p293 Oct 17
Methods of profit determination; tables; aren't you running in red? p102 Oct 17
Millionaire constructors. CW p17 Oct 31
Foreign competition tightens overseas,*. p25 Nov 14
Rogers Construction Co., San Diego, declares bankruptcy. p148 Nov 14
Dresser Industries, Inc., proposes acquisition of Gardner-Denver Co. p148 Nov 14
Separate bids not required for construction of buildings under NYS Thruway Auth. CW p17 Dec 12
Asian contractors schedule meeting in Manila. p56 Dec 19
Prospective bidders' names for all to see in California. CW p17 Dec 26
Union-contractor harmony pays off in Texas. p78 Dec 26

BLASTING see: EXPLOSIVES; see also: EQUIPMENT, Drills

BOLTS

Some answers to anchor bolt problems, diags 9 RCs p8 Aug 15
Swedish roof bolting system,* NP p86 Aug 15
Prefab railing assembled by bolts,* NP p47 Aug 29
More on anchor bolts, diag. RC p10 Sep 12
New roof bolts at Hass underground powerhouse, Calif.* p51 Sep 19
More on anchor bolts, diag. RC p11 Sep 26
Anchor bolt answers, diags 4 RCs p9 Nov 21

BONDS see project in question; see also: CONSTRUCTION, Financing

BOOK REVIEWS

The Plastic Methods of Structural Analysis, by B. G. Neal. p56 Jul 4
Hydraulic and Excavation Tables, by U.S. Bureau of Reclamation. p56 Jul 4
The Demand and Supply of Scientific Personnel, by David M. Blank. p66 Jul 25
Control of Steel Construction to Avoid Brittle Failure, ed. by M. E. Shank. p67 Aug 8
National Plumbing Code Handbook, ed. by V. T. Manas. p83 Aug 15
CRSI Design Handbook, by R. C. Reese. p83 Aug 15
Fundamentals of Statically Indeterminate Structures, by C. L. Shermer. p83 Sep 19
Daylight through the Mountain, by Walter and Francis Shirley. e p104 Sep 19
Religious Buildings for Today, an Architectural Record Book. p56 Oct 17
Acoustics for the Architect, by M. Burris Meyer and E. L. Goodfriend. p118 Nov 7
Air Conditioning, by W. P. Woolrich and W. R. Wohlfeil, Jr. p118 Nov 7
Handbook of Standard Structural Details for Building, by M. S. Ketchum. p121 Nov 7
Plastic Design of Portal Frames, by J. Heyman. p99 Nov 14
Nuclear Engineering, ed. by C. E. Bonilla. p80 Dec 5
Basic Soils Engineering, by B. K. Hough. p80 Dec 5

BOY SCOUTS OF AMERICA

A national jamboree is more than tents: site facilities at Valley Forge Park,**. p32 Jul 11

BRICKS, TILES see also: WALLS

Three-dimensional tiles give walls design variety,*. NP p45 Aug 1
Automatic packaging machine for bricks. p61 Oct 24
Brick walls are prefab panels,*. p28 Oct 31

BRIDGE DESIGN

Bold use of prestressed concrete across Rhone, France,**, diags. p36 Aug 1
Long reinforced concrete arch to span Parana, Brazil-Paraguay, diag. p51 Aug 1
Suspension design is best. RC p11 Aug 8
A rarity: K-truss hwy bridge over Baltimore railway tracks,*, diags. p42 Aug 8
Belgrade sets plate girder span record,**, diag. p46 Aug 8
Complex job of raising two Montreal bridges,*, diag. map. p52 Aug 15
and p32 Aug 29
Prefab railing assembled by bolts,*. NP p47 Aug 29
Longest lift span across the Arthur Kill, Staten Island,**, diags, map. p36 Sep 5
How beam design affects costs, diags, tables. p326 Oct 17
Light weight record spans for German bridges,**, diags. p36 Nov 7
Mackinac's safety against wind—milestone in suspension design. e p100 Nov 28

BRIDGES

Prestressed girders roll onto piers from pile bents,*. p44 Jul 18
AISC gives nine awards for bridge beauty,**. p24 Sep 26
Some unit prices. p254 Oct 17
Low prices for precast prestressed bridge, map, tables. p321 Oct 17
How beam design affects bridge costs, diags, tables, p326 Oct 17
Lift span records. RC p17 Nov 7
Spans over five major rivers posted by officials. p77 Dec 26
• American
Arizona
Private "sneak" bridge over Colorado R. charges tolls,*. p29 Aug 8
California
*First double-deck freeway connects with San Fran-Oakland Bay Bridge. p29 Jul 18
Prestressed bridges,**. p36 Jul 18
Simpson Lane bridge: girders roll onto piers from pile bents,*. p44 Jul 18
Prestressed girders cast on bridge site,*. p50 Jul 18
Private "sneak" bridge over Colorado R. charges tolls,*. p29 Aug 8
Colorado
Denver overpass has traffic problems; unit prices. p98 Jul 25
Hway Dept switches to concrete bridges. p25 Oct 10
Connecticut
Turnpike bridges,**. p56 Sep 19
Conn. River prestressed bridge span erected daily,**, diag. p40 Oct 3
Plate girder record at Quinnipiac River bridge,**. p27 Oct 31
Housatonic River bridge gets new asphalt deck,**. p42 Oct 31
Shims to keep Turnpike bridge near Danbury level,*. p28 Dec 5
Florida
Tampa St. Petersburg bridge: precasting and prestressing pays off, map, table. p121 Oct 17
and RC p8 Dec 12
Georgia
*Thompson's bridge, Gainesville, receives beauty award. p24 Sep 26
Idaho
Secondary road prestressed bridges unit prices. p54 Oct 10
Indiana
Grant Creek bridge to be replaced; unit prices. p83 Aug 22
Mississinewa bridge unit prices. p100 Sep 5
Iowa
Final plans for aluminum hway bridge. CW p17 Aug 22
Des Moines aluminum hwy bridge contract awarded. CW p17 Dec 19
Louisiana
Two railroad bridges to be part of New Orleans interchange project,** diag. p38 Jul 11
New Orleans bridge construction to be suspended in hurricane season. p27 Sep 26
Maryland
Baltimore hwy, pedestrian beltway bridges, unit prices. p98 Jul 25
K-truss carries hwy over railroad in Baltimore,*. diags. p42 Aug 8
Maine
RR underpass, Brunswick, reconstructed; unit prices. p83 Aug 22
Michigan
Mackinac bridge nears completion. B p1* Sep 5
Three concrete bridges, unit prices. p104 Sep 19
Final touches to Mackinac, world's longest suspension bridge*, table of dates. p24 Oct 31
Mackinac's safety against wind—milestone in suspension bridge design. e p100 Nov 28
New Jersey
Arthur Kill bridge to Staten Island to have longest lift span,**, diag, map. p36 Sep 5
*Delaware River turnpike bridge receives beauty award. p25 Sep 26
New Mexico
Roads and bridges unit prices. p66 Oct 24
New York
New approaches, George Washington bridge planned. p29 Jul 18
Hway bridge to set US prestressed concrete girder record. CW p17 Jul 25
Steel figures, Idlewild airport bridges, corrected. RC p8 Aug 1
Second deck for George Washington bridge, NYC,*. p79 Aug 29
Lake Champlain bridge to be a link with Vermont. p28 Sep 5
Arthur Kill bridge, Staten Island, to have longest lift span,**, map, diag. p36 Sep 5
*Allegheny River bridge, Salamanca, and Grass River Bridge, Massena, receive beauty awards. p24 Sep 26
Arches for connections over parkways, Long Island,**. p31 Oct 24
George Washington bridge new approaches questioned. RC p8 Oct 31
Work starts on Throgs Neck bridge, East River,*. p26 Oct 31
Concrete removed, does not meet specs on Arthur Kill bridge. p23 Nov 28
North Carolina
Bridges for sea coast studied. p79 Jul 4
Ohio
New lift span for Cuyahoga River railroad bridge,**. p50 Jul 25
Oregon
Columbia R. lift span floated into place,*. p24 Nov 21
Pennsylvania
*Clarks Summit bridge on Penna Turnpike northeastern extension. p26 Nov 7
Rhode Island
Interstate hwy bridges,*. p30 Oct 10
Tennessee
Mississippi span planned. p28 Sep 5
Texas
Prestressing on Corpus Christi bridge,**. p51 Sep 12
*Buffalo Bayou bridge, Houston, receives beauty award. p24 Sep 26
Vermont
Lake Champlain bridge will be a link with New York. p28 Sep 5
Virginia
New railway bridge across Elizabeth River,*, map. p27 Aug 8
N-S route approved for Chesapeake Bay bridge-tunnel. p27 Aug 8
Reinforced concrete deck near Richmond; unit prices. p104 Sep 19
Washington
Hood Canal bridge found financially feasible, map. p28 Jul 18
Mount Rainier National Park to have long prestressed span. p25 Aug 8
Record cut; steel takes low bid for Nisqually Glacier span, Mount Rainier. p26 Aug 22
Four bridges to span Puget Sound. p28 Sep 12
Columbia R. lift span floated into place,*. p24 Nov 21
Wisconsin
Swarms of flies cause Miss. R. bridge closing. p25 Aug 1
• Foreign
Africa
Concrete replaces twine in Liberia bridges,*. p82 Sep 19
Australia
Utah Construction to build King Street Bridge, Melbourne. p74 Sep 5
Brazil
Longest reinforced concrete arch will span Parana River, diag. p51 Aug 1
Canada
Montreal's Jacques Cartier bridge raised to provide more clearance,*, diag, map. p52 Aug 15
Montreal's Honore Mercier bridge blasted for raising operations,*, diag, map. p32 Aug 29
Peace River bridge collapses,*. p26 Oct 24
Jacques Cartier new span in, old span out,*. p29 Nov 7
Lake Okanagan reinforced concrete pontoon bridge,**, map. p46 Nov 21
China
Yangtze R. bridge built on concrete tubes,*, map. p46 Sep 19
France
Rhone cantilevers: first major prestressed RR bridge,*, diags. p36 Aug 1
Germany
Reconstruction of bridges: lightweight, record spans,**, diags. p36 Nov 7
Middle East
Suspension span for Tigris at Baghdad,*. p76 Aug 15
Turkey
Bosporus Bridge to be built by French contractors. CW p17 Oct 31
Business as usual in spite of Syrian tension. e p100 Oct 31
Bosporus Strait bridge design goes to D. B. Steinman. p26 Nov 21
Yugoslavia
Plate girder bridge over Save R. sets record,**, diag. p46 Aug 8

BUILDING CODES AND LAWS see also: STANDARDS, SPECIFICATIONS

Mexico City earthquake reveals design and construction defects,**. p38 ... Aug 15
New seismic data will reduce bldg damage in earthquakes. e p160 ... Sep 5
Uniform bldg code changed. p23 ... Sep 26
Mexico City code changes to reduce seismic damage,*, table. p69 ... Oct 17

BUILDINGS

Buildings under construction—top attraction of Berlin show,**. p74 ... Sep 12
DuPont Plaza Center, Miami, will contain hotel, office, exhibition hall,*. p28 ... Sep 19
Bldg Officials Conference regional meeting in Missouri. B p33 ... Sep 19
Madison, Wisc. lake shore civic center: Wright's plan blocked. CW p17 ... Sep 26
Nassau County growing fast,*, map. p31 ... Oct 3
Where the bldg dollar goes, table. p281 ... Oct 17
Lebanon's new bldgs,**. p28 ... Nov 21
Steel curtain walls in six Chicago bldgs,*&, p40 ... Nov 21
Tomorrow's structures: progress in roofs, materials, tools. p23 ... Dec 19
Russian buildings shabby and poor,*. p28 ... Dec 26
• Apartments, Hotels, Restaurants
*Hilton hotel planned for Pittsburgh. p142 ... Jul 11
T-slab cantilevers form Fla motel balconies,*. p26 ... Aug 22
Demolishing stubborn Washington apartments,**. p58 ... Sep 5
Le Corbusier's project in West Berlin,*. p74 ... Sep 12
Precast houses in Sweden,**. p80 ... Sep 19
Exposed precast bents frame x-shaped Montana University students' apartments,*. p30 ... Sep 26
*Meyer Hotel, Jacksonville, Fla. p340 ... Oct 17
Hilton plans new network of South American hotels. p53 ... Oct 24
Mexico City lift slab apartments set record,* p67 ... Nov 7
correction p6 ... Dec 26
Prestressed bars wind-brace Montreal hotel, diags,**. p33 ... Nov 14
*Restaurant in overpass, Will Rogers Turnpike, Okla. p25 ... Dec 12
Caracas skyscraper will be 58 story high,*. p74 ... Dec 12
*Florida apt house will be world's tallest lift slab. p24 ... Dec 26
• Arenas, Auditoriums, Gymnasiums, Stadiums
Los Angeles arena: commission files countersuit vs. architects. p28 ... Jul 25
Convention hall started in Waikiki Beach, second in year. B p33 ... Sep 19
Dallas dedicates memorial auditorium,*. p25 ... Oct 10
Open grid wood dome spans 140 ft at Memphis recreation center,*. p25 ... Nov 21
Pittsburgh concert auditorium to be built. CW p17 ... Dec 12
*Univ of Illinois stadium: athletic bowl with lid. p24 ... Dec 26
• Churches
Arch network to ground frames San Jose church, Medellin, Colombia,**. p47 ... Jul 4
Air Force Academy chapel design approved,*. p25 ... Aug 22
Sandwich type shell to enclose Orthodox church, Houston,*. p33 ... Sep 5
Helicopter places steeple on Bavarian church, Germany,*. p44 ... Nov 28
*New Roman Catholic cathedral, Hartford. p24 ... Dec 26
• Exhibitions, Fairs, Museums, Theaters
Wright to design opera house, Baghdad. p48 ... Jul 4
Wright's Guggenheim museum to have copper exterior. CW p19 ... Jul 11
Concrete span supported only at 3 pts to roof hall near Paris,* p56 ... Aug 22
Berlin's Building Exhibition,**. p74 ... Sep 12
Brussels World Fair of 1958 is a structural show,**. p36, and e p120 ... Sep 26
Guggenheim spiral museum, NYC, begins to take shape, diags,**. p42 ... Dec 5
• Federal, Municipal, State
Wright's Arizona capitol gains new supporters. p28 ... Jul 25
Alberta Govt tel. bldg: top story work speeded for TV network,*. p44 ... Jul 25
Ariz. capitol design decided upon, Wright's plans dropped. CW p17 ... Aug 1
Syracuse, N.Y. State Building nears steel-topping precedent,* p20 ... Aug 1
State office bldg contract may be awarded with no bidding. Baltimore court rules. p106 ... Aug 8
Indianapolis city & county offices will be highest bldg,*. p77 ... Aug 29
Senate office bldg nears completion,* p26 ... Sep 12
Row over the Capitol grows. CW p19 and diag,*. p33 ... Sep 26
F. L. Wright outlines Capitol change. CW p17 ... Oct 10
Fire may bring new Cincinnati city hall. CW p31 ... Oct 25
39 Mexico City Buildings dedicated in 1 day. p65 ... Nov 14
New Town Hall surrounds old in Nairobi, Kenya,*. p69 ... Nov 14
Atomic Energy Commission new HQ bldg in Germantown dedicated,* p26 ... Nov 14
San Jose, Calif. curved city hall,** p30 ... Nov 21
• Garages, Stables see also: PARKING
Yonkers raceway: two-story stables gain parking area,* p46 ... Nov 28
Systematic Parking new garage in Spokane, Wash. p 24 ... Aug 22
Columbus, Ohio garage to hit lift-slab record. CW p19 ... Sep 12
Wood folded plates roof for small garage,*. p25 ... Nov 7
• Hangars see also: AIRPORTS
Package-type jet hangar, Friendship Airport, Baltimore,*. p27 ... Nov 21
Louisiana hangar unit prices. p246 ... Jul 11
• Homes see also: HOUSING
Home week promotion in many cities. p101 ... Oct 17
Brick prefab panels for Geneva, Ill. small home,*. p28 ... Oct 3
• Hospitals
Calif state hospitals feature lift slabs with draped strands,*,diag. p40 ... Oct 31
Mexico City to open huge medical center,*. p57 ... Jul 4
Naval Hospital, Portsmouth, Va., boosts job prospects. p113 ... Aug 29
• Industrial plants and sites
Hapter-Concord project, Detroit on drawing boards. p142 ... Oct 3
Syndicate would convert Studebaker-Packard, Detroit, into shopping center. CW p19 ... Jul 11
Johnson & Johnson's new "room to grow" plant, N.J.,*. p44 ... Jul 18
Klabin paper mill, Brazil, gets new roof; production uninterrupted,*. p61 ... Jul 25
and RC p11 ... Dec 19
*McLouth steel plant, Trenton, to be expanded. p128 ... Jul 25
Ill., N.J., Tenn. work to attract and hold industry. p130 ... Jul 25
Tidewater's Del refinery: built fast, peacefully,**. p134 ... Jul 25
Orinoco steel mill, Venezuela gets started,*. p51 ... Aug 1
Correction of May 9 article on aircraft assembly plant. RC p12 ... Aug 22
Vibration isolators steady textile mill walls,*, diag. p38 ... Aug 22
Pit sunk as caisson at steel mill, Calif., expansion job,*,diag. p51 ... Aug 22
Michigan loses new plant, taxes blamed. p110 ... Aug 22
Hawaiian plant to produce dynamite. CW p19 ... Sep 12
Industry plans smaller plants and equipment outlay. p146 ... Sep 12
Research sets up capital goods boom, graph. p96 ... Sep 26
Maine votes insurance plan for industrial bldg mortgages. p102 ... Oct 3
Fluor Corp to build Commerce Oil refinery in R.I. p102 ... Oct 3
Missile plant in Ala. B p76 ... Oct 17
Cost indexes, tables, graphs. p88 ... Oct 17
Petroleum refinery costs, graph, tables. p94 ... Oct 17
Where the industrial bldg dollar goes, table. p280 ... Oct 17
Pacific Clay acquires Tillotson Refractories Co, Calif. p383 ... Oct 17
Standard Oil to build refinery in Hawaii. p70 ... Nov 7
Cutback on plant outlays due next year, graphs. p143 ... Nov 14
Phila sets up industrial land "bank". p107 ... Nov 21
Kansas factory aluminum dome erected fast,**. p24 ... Nov 28
Conoid with corrugations makes roof for Penna workshop,** p46 ... Dec 5
Prefab forms make Tata steel mill, India,**. p51 ... Dec 5
Hillside, N.J. plant: welded stud speeds aluminum wall assembly,*. p59 ... Dec 12
St. Louis may get $15m Chrysler plant,*. p139 ... Dec 12
States try to attract industry. p143 ... Dec 12
Decline continues in plant expenditures, table, graph. p72 ... Dec 19
• Laboratories, Research buildings
Allis Chalmers start engineering lab at Harvey, Ill. B p32 ... Sep 12
Proctor and Gamble will build new research center near Cincinnati,* p100 ... Sep 26
Where the research laboratory dollar goes, table. p279 ... Oct 17
Caterpillar's new testing lab,* p42 ... Oct 24
Aeronautical engineering research bldg. in Ohio; unit prices. p112 ... Nov 14
Mobile lab en route to Baghdad,* p56 ... Nov 21
Cuba lab has rhombus facade,* p71 ... Dec 12
• Offices
Chase Manhattan Bank, NYC, to have record-setting elevator contract. CW p19 ... Jul 11
ACI headquarters, Detroit, under way. p27 ... Jul 11
*Cleveland skyscraper planned by Tishman. p137 ... Jul 11
Natl. Bank of Miami bldg, Miami, in excavation stage,* p25 ... Jul 18
Am. Fore Insurance bldg, Chicago: floor slabs act as sunshades,* p33 ... Jul 18
Steel frame, Pittsburgh bldg erected by truck crane on rails,* p53 ... Jul 18
Fore Insurance bldg, Chicago, dedicated. B p30 ... Jul 25
Syracuse State office bldg sets air conditioning precedent,* p28 ... Aug 1
NYC skyscraper to be joined to Hotel Pierre,* p78 ... Aug 1
Engineers buy new HQ site at UN Plaza,*, map. p28 ... Aug 8
Calif. engineers plan society bldg,* e106 ... Aug 8
Red and gold 44 story bldg will replace Commerce Hall, NYC,* p31 ... Aug 15
Latin-American tower, Mexico City's tallest bldg, undamaged by earthquake,*,diag. p34 ... Aug 15
London glass bldg will rise 16 stories,*. p76 ... Aug 15
Medusa Cement Co. HQ in Cleveland demonstrates concrete applications,* p106 ... Aug 22
Excellent site for Engineering Societies HQ future bldg. e p96 ... Aug 29
Aluminum louvers face Beverly Hills Bldg* p28 ... Sept 5
and RC p12 ... Nov 21
Pittsburgh Penna RR bldg built across main track. B p32 ... Sep 12
Cleveland's concrete skyscraper enclosed in glass,**,diags. p65 ... Sep 19
Insurance firms dedicates Newark bldg,*. p27 ... Oct 24
Folded plate cantilevers roof ACI Detroit HQ,**,diag. p44 ... Oct 24
Freeway Center, Los Angeles, will be 40 story high. p27 ... Nov 7
NYC skyscraper at 525 Lexington Ave gets first gold colored panels,*. p28 ... Nov 7
RC p10 ... Dec 19
Fourth skyscraper for Pittsburgh Gateway Center. B p33 ... Nov 7
Engineering HQ will be slab-like tower, fund raising starts,*. p26 ... Nov 28
Time-Life bldg design unwrapped,*. p26 ... Nov 28
Steel firm plans tallest bldg in West Germany. p44 ... Nov 28
Insurance bldg, Worcester, Mass., has executive offices in center,*. p85 ... Nov 28
*Union Oil HQ in Los Angeles nears completion. p40 ... Dec 5
Baltimore office construction soars,*. p141 ... Dec 12
*Commercial Credit bldg, Baltimore, is aluminum paneled. p25 ... Dec 26
• Prefabs
Prefab business picks up, says manufacturer. CW p19 ... Jul 18
• Schools and Colleges
Calif. state colleges feature lift slabs with draped strands,*,diag. p40 ... Jul 4
Orlando school roof collapse caused by poor design,*,diags. p28 ... Jul 11
Del. legislature delays action on school bills. p140 ... Jul 11
Illinois votes $227 million state aid program. p142 ... Jul 11
Plans to cut changes in NYC school construction contracts. CW p17 ... Jul 25
Congressional thumbs down, federal aid expected. p23 ... Jul 25
Fla. construction priority goes to universities. p27 ... Jul 25
Del. passes largest construction bill in its history. p26 ... Aug 1
Michigan must build $1 billion worth of schools. p104 ... Aug 22
Calif. schoolhouse scales sandy hillside,* p27 ... Sep 5
School costs, graphs, tables. p284 ... Oct 17
Texas school postponed 18 mos., prices go up,*, table. p290 ... Oct 17
Laminated wood beams span 110 ft at Oregon college,* p63 ... Nov 7
Precast shiplap-plate panel roof for circular school, Calif.,** p64 ... Nov 7
Money crisis hits Delaware school construction. p73 ... Dec 19
• Shopping centers, Stores
Denver dept. store gets concrete shell roof,*. p25 ... Jul 11
Converting Studebaker-Packard, Detroit, into US largest shopping center. CW p19 ... Jul 18
New Haven shopping center relocation. p129 ... Jul 25
Little Rock shopping center bisects valley. B p10 ... Aug 8
Precast concrete bubbles make new Canaan "supermarket roof,** diag. p33 ... Aug 8
Tied arches made of concrete block at Alpena, Mich. supermarket,** p26 ... Dec 5
• Silos, Storage tanks, Warehouses, see also: RESERVOIRS
Parkersburg, W. Va. portable inflated warehouse,* p78 ... Jul 18
Steel domes, Ville la Salle silo, corrected. RC p8 ... Aug 1
Tent-like steel structures for grain storage, N.C., Ohio,* p33 ... Aug 1
Speedy concreting of aeration tanks. English sewage treatment plant,** diag. p68 ... Aug 15
Water storage tank elevated on jacks, N.C.,* p36 ... Sep 12
• Terminals
La Guardia to rebuild outmoded terminal,* p25 ... Jul 4
*New terminal for Kano International Airport, Nigeria. p48 ... Jul 4
Stephenville airport, Newfoundland gets new terminal. p48 ... Jul 18
West Side Marine Terminal planned for Detroit waterfront. p78 ... Aug 1
Montreal terminal area to be improved,* diag. p44 ... Oct 31
Vaulted roof planned for Idlewild terminal,* p28 ... Nov 14
• Towers
Nashville TV tower to be restored. p28 ... Nov 7

BUREAU OF PUBLIC ROADS see: HIGHWAYS

BUREAU OF RECLAMATION

All set for appropriation. CW p19 ... Aug 8
C. H. Spencer succeeded by R. B. Bullock in Sacramento, region director,*o. p75 ... Sep 26
J. K. Richardson retires as Denver mechanical branch chief. p90 ... Nov 14

CABLES
Cooled by water in plastic pipe in Toronto. p57 Oct 24
Special cable splice speeds reel changes,**. p87 Nov 14

CAISSONS AND COFFERDAMS
see also: BRIDGES, PORTS AND HARBORS
Niagara Falls cofferdams removed, control works project completed,* p24 Jul 25
Pit sunk as caisson to avoid cave-in at steel mill expansion job, Calif.,*, diag. p51 Aug 22
Arthur Kill bridge cofferdams; movie check for blast,**, diags, map. p36 Sep 5
Stockholm subway built in unusual cofferdams,*, map, diags. p52 Sep 5
Caissons nail down slipping California shore. p26 Sep 19

CANALS see also: IRRIGATION; RIVERS
Concrete-lined canal, Jackson County, Oregon, unit prices. p163 Jul 11
Benefits of Tennessee-Tombigbee proposed canal studied. B p33 Jul 18
Argentine seeks bids on canal from Oran oil fields to port. p25 Nov 7
Canal planned between Pittsburgh and Lake Erie to cost in un Seaway. p146 Nov 14
Egypt to invite bids for Suez improvements. p57 Dec 19

CANTILEVERS see: BEAMS

CAUSEWAYS
Sabine Lake causeway planned. p30 Jul 25

CEMENT see: CONCRETE, Cement

CITIES see also: BUILDINGS; CONSTRUCTION, Markets; HOUSING
Urban renewal advances in 7 major cities. p129 Jul 25
Urban renewal program, difficulties, federal help; tables. p21 Aug 22
Christmas tree raising in US cities,**. p24 Dec 19
Baltimore, Md.
Office construction soars. p141 Dec 12
Beirut, Lebanon
Lebanon's capital construction boom,**, map. p28 Nov 21
Bogota, Columbia
City traffic to be improved. p52 Oct 24
Boston, Mass.
Industrial and commercial bldg strong in area. p75 Dec 26
Brasilia, Brazil
Contract signed for new capital city,*, map. p23 Jul 4
Buffalo, N. Y.
Traffic problems; study in hwy integration,*, map. p62 Aug 15
Officials warned on conflicting interests. p102 Oct 3
Caracas, Venezuela
Ave of Heroes newly opened,*. p51 Aug 8
University City Institute development includes 58 story bldg,*. p74 Dec 12
Chicago, Ill.
West Central Industrial District, site of new project. p130 Jul 25
Steel curtain walls in 6 bldgs discussed,** p40 Nov 21
Columbus, Ohio
Planning Commission studies five-year $185 mil program. p78 Aug 1
Dallas, Texas
* New auditorium; general view. p25 Oct 10
Detroit, Mich.
Hapter-Concord industrial project. p142 Jul 11
Receives grants for two urban renewal projects. p129 Jul 25
Woodward Ave section may become pedestrians' mall. B p33 Sep 5
Monorail plan approved. p77 Dec 26
Hartford, Conn.
Redevelopment near Webb and Knapp offer $3m. p141 Dec 12
Hollywood, Calif.
* CBS Television City to be doubled in size. p140 Jul 18
Houston, Tex.
Plans $me bond issue, cancels another. p111 Aug 22
Istanbul, Turkey
Old and new; city's reconstruction,*. p34 Oct 10
Memphis, Tenn.
$18m investment in industrial bldg. p130 Jul 25
Mexico City
July earthquake strikes bldgs; Latin American towns undamaged.* p27 Aug 1
Earthquake reveals design and construction defects,** p38 Aug 15
To open huge medical center in 1958.* p57 Aug 29
39 buildings dedicated in 1 day. p65 Nov 14
City expressway eases traffic.*. p58 Nov 21
Milwaukee, Wis.
To check waste of cooling water. p25 Aug 22
Gets tough on contractors who fail to meet completion dates. p26 Sep 5
Montreal, Canada
Terminal area to be improved,*, diag. p44 Oct 31
Queen Elizabeth Hotel key building in terminal area, diags,**. p33 Nov 14
Nairobi, Kenya
New town hall surrounds qld,*. p68 Nov 14
Nassau, Long Island
The county that became a city,*, map. p31 Oct 3
New Haven, Conn.
Urban renewal projects include big shopping center, relocation. p129 Jul 25
New Orleans, La.
Interchange designed to speed traffic,**, diag. p38 Jul 11
New Rochelle, N. Y.
Business center started; Westchester Terminal New Plaza. B p33 Sep 5
New York, N. Y.
Manhattantown project aground; to get new sponsor. p24 Jul 4
Palm greasing in city building dept. e p160
Dilemma; need for street repairing and ensuing traffic jams. p160 Moses proposes housing project near Penna station. CW p17 Oct 3
Slum clearance contracts tightened. p104 Dec 5
City approval of Lincoln Square may be balked. p167
Philadelphia, Pa.
Water, sanitary facilities for Boy Scout Jamboree, Valley Forge Park,**. p32 Jul 11
Trolley line electricity corrodes water, gas mains. p29 Jul 18
To ask voters for $47m in bonds. p110 Aug 22
Pittsburgh, Pa.
Traffic-breaking projects include tunnels, interchanges,**, maps. p65
Providence, R. I.
Private firm will build parking deck. p26 Sep 5
Richmond, Va.
Turnpike to Petersburg; bond financed city expressway,**, maps. p30 Jul 4
Rio de Janeiro, Brazil
Building failure alarm. p51 Aug 8
Bids called on vehicular tunnel. p74 Aug 15
$100m urban modernization job planned, mountain to be raised. p74
San Francisco, Cal.
Sidewalk superintendents club organized,*. p23 Aug 15
Seattle, Wash.
Seattle studies 6-yr schedule for referendums. p73 Sep 26
St. Louis, Missouri
Need for city planning. e p160 Jul 18
Toronto, Canada
Thorncliff Park, housing and industrial project to start soon p102 Oct 3
Waco, Texas
New downtown section planned,*. p84 Nov 28
Washington, D. C.
No bridge, no tunnel, no legislation for Potomac R. CW p19

COFFERDAMS see: CAISSONS AND COFFERDAMS

CONCRETE
Foamed concrete made by adding aluminum. NP p90 Aug 8
Flexural tests unreliable. CW p21 Aug 15
Corps of Engineers searches for better, cheaper concrete, tables. p34 Aug 22
Spectacular roof for exhibition hall near Paris has record span,*. p56 Aug 22
Wide applications demonstrated in Medusa Cement Co HQ, Cleveland,*. p106 Aug 22
Cementless concrete. 3 RCs p8 Aug 29
Step toward better concrete. e p96 Oct 10
How to blast concrete,*, table. p105 Nov 7
Dow Base lessons in runway paving; good use of poor materials,** p40 Nov 14
Fresh concrete consistency determined by ball penetration device,*. NP p76 Nov 14
• Aggregates
Mountains of aggregate at Dow AFB runway project.** p40 Nov 14
• Blocks, Slabs
Defective design of roof slabs causes Orlando school collapse,*, diags. p28 Jul 11
Twin wall block unit joined by iron ties,*. NP p90 Jul 11
Floor slabs, Am Fore Insurance bldg, Chicago, act as sunshades,*. p33 Jul 18
• Cement
Terms misused; asphaltic concrete contains no cement. RC p14 Aug 4
Nationwide cement strike disrupts construction schedules. p134 Jul 11
Wage disputes in cement industry impede construction. p148 Jul 18
West Germany ranks third in cement production. p62 Jul 18
Strike poses new threats; construction schedules upset, higher prices expected. p138 Jul 25
Cement strike causes critical shortage in major cities. p21 Aug 1
Cement strike settlement expected. CW p17 Aug 8
Air moves cement at St. Lawrence job,*. p48 Aug 8
Price boosts due. p108 Aug 29
"Cementless" concrete. 3 RCs p8 Sep 5
Three mills plan to hold present prices. p138 Sep 26
Silo and trailer for fast unloading of dry cement. NP p57 Oct 10
Cement temperature. RC p10
W. T. Moran, cement authority, retires from Reclamation's labs,*. p107 Nov 7
Resinous cement coating helps skid-proof roads. NP p82 Dec 12
Cement rides on air in new feeder mechanism. NP p47 Dec 26
Price boosts promised, table. p77 Dec 26
• Finishing
Standards for floor finishing. p105 Nov 7
• Forms
Special mold, wood panels will make culvert form. NP p68 Aug 8
Forms hung on gantry speed tank concreting, English sewage treatment plant,**, diag. p68 Aug 15
Tin cans nailed to floor slab forms to make pipe conduit,*. p65 Sep 26
Steel road forms with slide locks are fast, interchangeable,*. NP p78 Nov 14
Prefab forms used at Tata steel mill, India,**. p51 Dec 5
Portable form cleaner wire brushes steel panels. NP p48 Dec 19
• Frames See also: BEAMS
Concrete arches to ground frame San Jose Church, Medellin, Colombia,**. p47 Jul 4
Concrete replaces wood transmission-line power poles, Fla.,*. p41 Jul 25
Combination columns support Cleveland skyscraper,*, diags. p65 Sep 19
Exposed precast bents frame Montana apartments,** p30 Sep 26
Brussels World Fair is a structural show,**. p36 Sep 26
Michigan supermarket; tied arches made of concrete block,**. p26 Dec 5
Building frame analyzed by computer, diag. p34 Dec 19
• Lift slab
Calif lift slab jobs, state bldgs, have draped strands,*, diag. p40 Jul 4
Columbus garage to hold record. CW p19 Nov 7
Mexico City apartment house,*. p67 Nov. 7
and RC p6 Dec 26
• Mixing and Placing see also: PAVING
Screed vibrates sloped walls for Penna flood control.* p90 Sep 19
Cement temperature. RC p10 Oct 10
Smooth curves for Guggenheim spiral museum, diags,**. p42 Dec 5
Portable mixer can be wheeled onto jobsite,*. NP p81 Dec 12
Airplaco gun has high production rate. NP p48 Dec 19
Water-aggregate mixer for base stabilization. NP p47 Dec 26
• Precast
Apartment houses in Sweden,**. p81 Sep 19
Exposed precast bents frame Montana apartments,** p30 Sep 26
Precast flexible wall to hold shore, Ohio lake,*. p62 Sep 26
Precast prestressed bridge pays off, diag, table, map. p31 Oct 17
and RC p8 Dec 12
Hipped-plate panels form roof of circular school, Calif.,*. p64 Nov 7
• Prestressed
California's prestressed concrete bridges,**. p36 Jul 18
NYC hway bridge to set US prestressed concrete girder record. CW p17 Jul 25
Concrete replaces wood transmission-line power poles, Fla.,* p41 Jul 25
Rhone bridge, France; first major RR bridge of prestressed concrete,*, diags. p36 Aug 1
World conference listens to 30 papers,*. p23 Aug 8
Special device positions seven prestress cables in beams and girders,*. NP p78 Aug 22
B. C. Gerwick, Jr.: Moving ahead in prestressing,*. p77 Sep 5
Create a prestressing code. RC p10 Sep 12
Prestressing on Corpus Christi bridge,**. p51 Sep 12
Freyssinet Co president is director of Prestressed Concrete Institute. RC p14 Sep 19
Conn River bridge; long span erected daily,**, diag. p40 Oct 3
How beam design affects bridge costs, diags, tables. p126 Oct 17
and RCs pp8-15 Dec 5
• Reinforced
Skewed arches to ground frame San Jose Church, Medellin, Columbia,**. p47 Jul 4
Hyperbolic-paraboloidal shell to roof Denver dept store,*. p25 Jul 11
ACI headquarters, Detroit to feature folded-plate thin-shell concrete roof. p27 Jul 11
Casting four-legged piers, Cuyahoga River railroad bridge,**. p50 Jul 25
RILEM conference studies cracking in concrete. p71 Jul 25
Longest concrete arch will span Parana River, diag. p51 Aug 1
Shrapnel finder spots steel embedded in concrete.* p80 Nov 7
Pontoon bridge across Okanagan Lake, British Columbia,**. p46 Nov 21

CONGRESS
Passes compromise housing bill; more money for mortgages, Fannie Mae. p79 Jul 4
Federal flood insurance program shelved; money refused. p29 Jul 4
Congressional navs thwart public works, reclamation bills. p23 Jul 25
Congressional go-ahead on PASNY's Niagara project. p23 Jul 25
A-power; public or private; Congress deliberates,*, table, graphs. p21 Aug 1
Spending plans; civil works spared, military hit, tables. p24 Aug 29

What did the 85th Congress accomplish?*, table. p23 Sep 5
Sen. McClellan condemns employers for anti-union activities,* p151 Nov 14
Russian hydro spurs US money push,* p26 Dec 12
What Congress faces in 1958 construction. p21 Dec 26

CONSTRUCTION see also: ENGINEERING; PUBLIC WORKS

World construction year, 1960, proposed. CW p19 Jul 11
Concern over costs good omen in wage negotiations. e p152 Jul 25
Meeting scheduled to plan World Construction Year. p25 Jul 25
Universalconstructiontalken: humorous pidgin German vocabulary. e p168 Sep 12
Will it be construction baseball world series? CW p17 Sep 26
Construction baseball,* p21 Oct 3
Overseas Americans construction group formed. p61 Oct 10
ENR's annual report on construction costs, graphs, tables. pp79-335 Oct 17
Depreciation affects feasibility of construction, graphs, tables. p335 Oct 17
Importance of technical library research. RC p9 Oct 24
Emphasis on construction at ASCE annual meeting. p21 Oct 24
Can construction be taught in college?*. p23 Nov 7
Robert Moses in defense of construction men. e p168 Nov 7
Third Nat'l Construction Industry Conference on structural design. CW p21 Nov 14
New construction activity to buoy economy, table. p109 Nov 21
World construction year set. p23 Dec 19
U. S. world policy: not by guns alone, says Adlai Stevenson. e p88 Dec 19
• **Backlog**
Industrial bldg projects over $300m feed into August backlog. CW p17 Aug 29
Backlog higher so pressure gap shows more depth, graphs, p146 Sep 19
• **Contract awards**
1957 total 10% short of 1956, graphs. p21 Jul 4
June weekly awards at high; hways, bridges set record, June table. p76 Jul 4
Construction contracts rise, equipment orders skid, graph. p130 Jul 25
Atomic construction: a building market,*, projects table, graphs. p21 Aug 1
July tops June, table. p101 Aug 8
Upturn in industrial bldg expected. CW p17 Aug 29
Private contracts up, August table. p137 Sep 5
September contracts hit year's low, table. p73, Oct 10
October volume tops September, table. p142 Nov 7
November shows drop, table. p175 Dec 5
• **Cost Indexes**
ENR indexes set new high; wages up in 8 key cities. p77 Jul 4
Biggest jump since 1947 as steel prices soar. p104 Aug 8
Slight dip in August. p137 Sep 5
Annual report; ENR & other bldg & construction cost indexes, graphs, tables. p83 Oct 17
Turner unit bldg cost, graph, table. p278 Oct 17, and correction. p79 Oct 24
Bldg index climbs, construction index dips. p382 Oct 17
ENR indexes show small upward move. p142 Nov 7
• **Financing**
Money costs more, Federal Reserve tightens screws. p176 Aug 15
Bankers walk out of FHA market; discount rules—homebuilders' nightmare,*. p21 Aug 29
Federal appropriations: civil works spared cuts, military hit, tables. p24 Aug 29
Six banks join to provide Portsmouth Air Base housing loan. p138 Sep 5
Delaware removes interest ceiling on bond issues. p140 Sep 5
Capital markets to favor public works, graphs. p142 Sep 12
Michigan campaign for state park construction. p147 Sep 19
Maine votes insurance plan for industrial mortgages. p102 Oct 3
Low yields block Kentucky, Missouri bond sales. p104 Oct 3
Financing costs, bond yields, bank rates, tables, graphs. p143 Oct 17
$614m in bonds approved by voters; table. p29 Nov 14
Ala. referendum in Dec. to decide $22m bonds. p145 Nov 14
Nat'l Ass. of Real Estate Bds. convention discusses FHA loans. p146 Nov 14
Fed's move: lower discount rate may ease credit. p105 Nov 21
Delaware financial crisis imperils construction. p139 Dec 12
Mo. court upholds validity of bond sales below par. p142 Dec 12
Seattle studies 6-yr schedule for referendums. p73 Dec 19
• **Forecasts**
1957 total trail 1956 by 10%; Increase expected, graphs. p21 Jul 4
Booming population will keep contractors hustling. p140 Sep 5
1958 volume will hit close to 1957,* table. p23 Sep 12
Industry plans smaller plant and equipment spending. p146 Sep 12
Construction machinery mfctrs expect volume increase in second half of the year, graphs. p145 Sep 19
Research sets up industrial buildings boom, graph. p96 Sep 26
Cutback on plant outlays due next year, graphs. p143 Nov 14
Sputnik prompts defense spending, civilian projects to suffer. p23 Nov 21
Construction to buoy economy next year, 1958 outlook table. p109 Nov 21
First half of 1958 could boost the boom, table. p23 Dec 5
Some gains seen for 1958, graph. p74 Dec 26
• **Foreign**
Contractor's bankruptcy halts $8m in Ontario building. p144 Sep 12
Canada supports home building industry. p151 Sep 19
Turkey: hydro paces construction boom,**, map, diag. p34 Oct 10
Cost trends around the world, tables, graphs. p144 Oct 17 & correction p14 Nov 14
Estimating costs outside US, table. p288 Oct 17
Construction accelerates in Buenos Aires. p70 Nov 7
Foreign competition tightens overseas,*. p25 Nov 14
Report from Lebanon, maps,** p28 Nov 21
Inside story on Soviet construction,*. p26 Dec 26
• **Longer Look**
States, cities boost spending. p128 Jul 25
Materials prices slowly going up. p103 Aug 22
Research sets up capital goods boom, graphs. p96 Sep 26
Highways: new business and new problems,*. p75 Oct 24
Cutback on plant outlays due next year, graphs. p143 Nov 14
Some gains seen for economy next year, graph. p74 Dec 26
• **Markets**
An on-the-spot report from
San Francisco, Calif. p138 Jul 11
Boston, Mass. p132 Jul 25
Louisville, Ky. p108 Aug 22
Norfolk and Portsmouth, Va. p140 Sep 5
Portland, Ore. p151 Sep 19
Tampa, Fla. p106 Oct 3
St. Louis, Mo. p76 Oct 24
Cincinnati, Ohio. p148 Nov 14
Midland, Texas. p168 Dec 5
• **Materials**
Inter-suppliers competition: congressional hearings on prices imminent, table. p137 Jul 18
Seven mergers actions involve total of 13 firms. p142 Jul 18
Cement price increase certain; strike causes shortage in East. p21 Jul 25
Profits dip for material suppliers, table. p174 Aug 15
Prices going up slowly, table. p103 Aug 22
Price trends in 1957, graphs, tables. p115 Oct 17
• **Materials and Labor Prices**
Bldg Board, Lath, Insulation; Hourly wages: p 62 Aug 1, p63 Aug 29, p70 Oct 3, p128 Oct 17, p65 Oct 31, p66 Nov 28
Cement, Aggregate, Concrete, Paving Bricks, Block, Asphalt, Road Oils: p63 Jul 4, p82 Aug 8, p102 Sep 5, p56 Oct 10, p123 Oct 17, p128 Nov 7, p126 Dec 5
Iron and Steel; Plumbing, Heating, Water, Sewer and Drain Pipe: p104 Jul 11, p116 Aug 15, p102 Sep 12, p124 Oct 17, p114 Nov 14, p102 Dec 12
Lumber, Timber, Plywood; Glass, Explosive, Chemicals; Piles, Ties: p100 Jul 18, p84 Aug 22, p106 Sep 19, p225 Oct 17, p67 Oct 24, p90 Nov 21, p60 Dec 19
Structural Clay Tile, Brick and Lime, Paint, Roofing, Plaster, Vermiculite and Metal Sheets and Tubing: p102 Jul 25, p62 Aug 29, p80 Sep 26, p127, Oct 17, p64 Oct 31, p65 Nov 28, p60 Dec 26
• **Military** see also: DEFENSE
G.I. bidgs too frilly. CW p19 Aug 8
Military construction budget cut, table, p24 Aug 29
New army construction starts, table. p71 Oct 17
Missile facilities speeded. p75 Dec 26
• **Scoreboard**
Indexes: Bldg costs and price, hway bid price, machinery price: p72 Aug 1, p100 Oct. 3
Wage rates, Material Prices, ENR Index Review. p72 Jul 4, p98 Aug 8, p134 Sep 5, p72 Oct 10, p140 Nov 7, p165 Dec 5
Contracts awarded; New Construction Capital, Materials shipments; Employments and failures: p132 Jul 11, p168 Aug 15, p141 Sep 12, p379 Oct 17, p140 Nov 14, p137 Dec 12
ENR cost indexes in 22 cities: p134 Jul 18, p101 Aug 22, p142 Sep 19, p74 Oct 24, p103 Nov 21, p71 Dec 19
Backlog of heavy construction; flow of projects into: p124 Jul 25, p74 Aug 29, p95 Sep 26, p78 Oct 31, p80 Nov 28, p73 Dec 26
• **Unit Prices**
Conn. sewer and soil problems; Jaffrey, N. H. sanitary sewers. p58 Jul 4
New street, East St. Louis, Ill. p58 Jul 4
Kokomo Waterworks reservoir, Indiana; Concrete lined canal Jackson County, Ore. p103 Jul 11
Water supply, Engineer's Cambria range station, Tenn. p98 Jul 18
Amvet's memorial hway relocation, Mass. p98 Jul 18
Baltimore beltway bridges; Denver, Colo. overpass. p98 Jul 25
Tar coat, seal Vt. hway; NY link Penn-Can expressway. p61 Aug 1
Scott field runways; Birmingham airport taxiways. p81 Aug 8
Twin cities airport, Minn.; Indiana bridge; Maine RR underpass. p83 Aug 22
Mich T-beam grade separation; Miss. forest hway structure. p60 Aug 29
Concrete bridge for Ind county; Iowa water distribution; Milwaukee pier. p100 Sep 5
Pontiac, Mich. sewers and paving; Va parkway viaducts; Colo. runway. p101 Sep 12
Three Michigan bridges; Richmond overpass; Cleveland airport. p104 Sep 19
Va. hwy connection; Maine sewers. p78 Sep 26
Seattle airport runways; Kansas dam spillway; Mississippi levee setback. p68 Oct 3
Prestressed bridges for Idaho secondary road. p54 Oct 10
Unit prices bid by contractors. pp183-276 Oct 17
Roads and bridges in New Mexico. p66 Oct 24
Freeway for California includes pumping plant; N. C. plate girder. p62 Oct 31
N. C. hwy widening; asphaltic concrete resurfacing in Ohio. p126 Nov 7
Aeronautical Research bldg in Ohio; N. H. interstate highway and bridges. p112 Nov 14
New Mexico atomic energy; Fla steel bulkhead. p88 Nov 21
New York Subway and underplanning. p62 Nov 28
Concrete pavement in Mich; Submarine crossing, Skagit River, Wash. p124 Dec 5
Cherry Power tunnel, Calif; furnaces and boilers for incinerator bldg. p101 Dec 12
Water supply expansion in Montana. p58 Dec 19
Concrete pipe sewers for Seattle. p58 Dec 26

CONTRACTS, CONTRACTORS see: BIDS; CONSTRUCTION; ENGINEERING; LABOR, Contracts; see also: COMPANIES INDEX

CONVEYORS see: TRANSPORTATION

CORPS OF ENGINEERS

Pacific Coast Division created. p53 Jul 4
Rejects low bidders, Eagle Gorge Dam, protest. CW p19 Jul 11
L. E. Bozarth retires for Fort Belvoir lab. p77 Aug 8
Searches for better, cheaper concrete, tables. p34 Aug 22
Col. Gribble receives award for A-plant work. p67 Sep 12
Gen. Carter becomes president of Mississippi R. Commission. p67 Sep 12
Col. Jackson Graham, Oregon, rescues victims off sunk dredge. p75 Sep 26
Year's spending detailed, table of projects to start. p71 Oct 17
F. S. Brown gets highest civil service rate. p342 Oct 17
Col. A. L. Reed takes over Albuquerque District. p142 Oct 17
H. W. Schulte, safety engineer, gets Morocco mission. p59 Oct 31
Col. F. O. Diercks becomes commander of map service. p59 Oct 31
Gen. L. H. Fuste to retire from Corps,*. p107 Nov 7
R. R. Robertson becomes chief of technical liaison,*. p107 Nov 7
20% budget cut expected. p23 Nov 21
Col. A. F. Clark becomes Division Engineer, Northwest Pacific,* p55 Nov 28
Col. W. F. Powers to get Philadelphia district. p55 Nov 28
Col. C. M. Sciple to get command of Gulf district. p53 Dec 19
G. A. Hathaway and C. H. Gieroux receive Army's highest civilian award. p54 Dec 26

CORROSION

Phila. trolley line electricity corrodes water, gas mains. p29 Jul 18
Zinc spray protects steel from corrosion,*. NP p70 Jul 18
Cathodic protection for Hyperion sludge line pipe,**. p17 Jul 25
Chemical cuts corrosion from salt-treated slush. NP p27 Sep 26

COURT CASES see: LEGAL DECISIONS

CRANES see: EQUIPMENT, Cranes

D

DAMS

C. R. Marks, dam designer, joins Houston consulting firm. p84 Jul 18
Congress thwarts proposed Hells Canyon, Fryingpan projects. p23 Jul 25
Penstocks sized quickly, table, diag. p78 Aug 15
and XL graph p15 Dec 5
Permit asked for last damsite on Columbia R. p27 Sep 5
On height record. RCs p11 Oct 3
What is a rockfill dam? e p96 Oct 24
Rockfill dam definition. RC p11 Nov 28
Bill to stop Snake River dambuilding. CW p19 Dec 5
Crane equipped tractor used to raise dam gates,*. p96 Dec 12
• **American**
Ball Mountain Dam, Vermont
Rock fill flood control dam is New England's highest; unit prices. p148 Oct 17
Barkley Dam, Cumberland River
AFL-CIO and UCW clash over picketing. p31 Aug 1
Cofferdam and lock unit prices. p206 Oct 17
Box Canyon Dam
Contractors lose in court ruling; PUD gets damages. p140 Jul 18

Bridge Canyon Dam, Colorado River
Ariz protests Los Angeles request to build p27 Jul 25
Brownlee Dam, Snake River
Will miss height record, may set speed mark,*. p33 Aug 15
*Turbine scroll cases shipped. p30 Dec 5
Bull Shoals Dam, White River
First water spills over. p28 Aug 8
Chief Joseph Dam
Tainter gates opened,* p25 Sep 12
Comanche Dam, Mokelumne River
Rolled earthfill structure planned. p146 Sep 12
Courtright Dam, Helms Creek (Kings River)
Builders save millions on two faced rockfill dam,** p38 Aug 29
Cowlitz River Dam, Wash.
Contract terminated on 40% completed project. p148 Nov 14
Dalles Dam, Columbia River
Power from first generator on line. B p32 Sep 12
Glen Canyon Dam, Colorado River
Unit prices, map. p183 Oct 17
Governors debate dam's effect on Hoover Dam's power,*, map. p21 Oct 31
Geological Society of America discusses cost estimates. p27 **Nov 14**
Grand Coulee Dam, Columbia River
Floodlighting system for spillway waterfall. B p34 Aug 15
Hills Creek Dam, Willamette River
Contract let to Green Construction Co., Des Moines. p33 Jul 18
Flood control dam and powerhouse unit prices. p198 Oct 17
Ice Harbor Dam, Snake River
Two jurisdictional disputes lead to work stoppages. p154 Nov 14
Leech Lake Dam, Minn.
Barge accident damage is small. B p30 Aug 8
Libby Dam, Kootenay River
Project revived. B p33 Sep 5
Mayfield Dam
Contractor files $1m claim against city of Tacoma. p176 Aug 15
Middle Bar Dam, Mokelumne River
Concrete arch structure planned. p146 Sep 12
Montgomery Dam, Colorado
Asphaltic deck is watertight layer, diag.*. p36 Dec 5
Noxon Rapids, Clark Fork River
Power dam rises in Montana,**, diag. p60 Dec 5
*Night shift operations. p25 Dec 12
Oahe Dam, Missouri River
Geological Society of America discusses cost estimates. p27 Nov 14
Ochlockonee River Dam, Fla.
Sections wash out, flooding small area. p26 Oct 10
Pelton Dam, Deschutes River
*Ski jump spillway nears completion. p26 Aug 1
Fast dambuilding. RC p14 Sep 19
Priest Rapids, Columbia River
Work 14% complete. B p34 Aug 15
Project takes shape after 1 yr,**. p40 Oct 31
First power may be delivered ahead of schedule, CW p17 Nov 28
Railroad Flat Dam, Mokelumne River
Gravity concrete structure planned. p144 Sep 12
Rocky Reach Dam, Columbia River
$52.4 mil low bid in for final-stage contract. p26 Aug 1
Bid accepted. CW p19 Sep 5
River diversion plan tips scales on bids; unit prices,* p188 Oct 17
Table Rock, White River
Dam nearly completed, will be finished on schedule,*. p22 Nov 21
Terrace Reservoir Dam, Alamosa Creek
Leak spurs inspection of state earthfill dams,* p25 Aug 1
Tocks Island Dam, Delaware River
Early start urged. CW p17 Sep 26
Wallpack Dam, Delaware River
To be shifted to Tocks Island site. B p34 Aug 15
Wanapum Dam, Columbia River
Plans formed for $242m project. p25 Oct 10
Wells Dam, Columbia River
License request set for hydro development. p31 Aug 22
Wilson Dam, Kings River
Builders save millions on two faced rockfill dam,** p38 Aug 29
Woodston Dam, Kansas
Overflow spillway for diversion dam; unit prices. p68 **Oct 3**

Foreign

Africa
Nasser revives talk of Aswan Dam financing. p64 Jul 25
Kariba Dam contractors, Zambezi River, beat deadline. p55 Aug 22
Japan shows interest in Egypt's Aswan dam. p78 Sep 12
Aswan high dam on again. CW p17 **Dec 12**

Canada
Construction under way on BCE's Bridge River Dam. p48 **Jul 4**
Quebec Hydro finishes First, pushes Second Berislmis job,**,maps. p28 Dec 19

China
Engineers engaged for Shihmen Dam, Formosa. p78 Sep 12
Buckets move materials to Wu Sheh Dam, Formosa,*. p65 Nov 14

Cuba
Geological Soc. of Amer. discusses costs on Hanabanilla project. p27 Nov 14

India, Pakistan
*Bhakra dam reaches one-third mark. p44 Nov 28

Japan
Orifices pass floods through Tonoyama arch dam,**. p50 Oct 3

Middle East
Cattle replace machines on deflector dam construction in Aden,* p51 Aug 8
Iran plans gravity dam on Dez river p76 Nov 7
Engineering and construction controversies nurture Middle East crises; involve Yusuf Pasha Dam, Syria, map. e p168 Nov 14
Karaoun dam—key structure in Lebanon's Litani Valley project, map. p28 Nov 21
Iraq's projects,*,map. p34 Dec 12
Syrian projects slated, map. p72 Dec 12
Karadj dam, Iran, starts new river project,*,map. p56 Dec 19
Iraq's big dams,**,map,plan. p32 Dec 26

New Zealand
Roxburgh Dam completed,*. p73 Sep 5

Russia
Huge dams,**, map. p26 **Dec 12**

Switzerland
Mauvoisin—world highest dam completed,*. p24 Nov 21

Turkey
Five big dams; hydro paces country's construction boom, **,map,diag. p34 Oct 10
Comments on Kemer Dam. RC p8 Nov 14
Keban Dam engineering and construction controversies nurture Middle East crises, map. p168 Nov 14

DEFENSE see also: ATOMIC ENERGY; RADAR

New Northwest passage found in Arctic for DEW-line supply ships. p78 Sep 12
A missiles program on A-bomb pattern? p52 Dec 5
Secrecy hurts progress. e p192 Dec 5
Missile facilities speeded. p75 Dec 26

DERRICKS see: EQUIPMENT, Cranes

DESIGN see also: BRIDGE DESIGN; HIGHWAY DESIGN

Stability in columns, frames. RC p8 Jul 25
Analyzing stability of free-standing columns. RC p9 Aug 1
Lessons from Mexico City earthquake. e p128 Aug 8
New light on brittle failures of metals. e p128 **Aug 8**
Mexico City earthquake reveals design and construction defects,**. p38 Aug 15
Latino-Americana tower undamaged by Mexico City earthquake,*,diag. p44 Aug 15
How to improve design and drafting efficiency, diags. p38 Sep 12
Make model studies to improve design,*. p46 Sep 12
Pavilions for Brussels World Fair—structural innovations,**. p36 and e p120 Sep 26
New designs in offshore drilling rigs,**. p54 Oct 3
Turkey's dams,**,map,diags. p34 Oct 10
Methods of distributing horizontal shear, diags. 9 RCs. p12 Oct 17
How to reduce seismic damage,*,table. p69 Oct 17
Reduced lumber stresses. RC p9 **Nov 7**
Solar house design winner. B p33 Nov 7
Survival strength for structures. e p168 Nov 7
Third Nat'l. Construction Industry Conference on Structures. CW p21 Nov 14
Prestressed bars wind-brace Montreal hotel, diags,** p33 **Nov 14**
Runway for Dow AFB in Maine,**. p40 Nov 14
No design without field inspection. e p128 Nov 21
When is design "right"? RC p13. Dec 12
Frame shear method. RC p9 Dec 19
A look at the structures of tomorrow. p23 Dec 19

DOCKS see: PORTS AND HARBORS

DOMES see: ROOFS

DOORS

Wall panels can be doors. p90 Sep 19
Industrial door council formed. B p33 Nov 7

DRAFTING see: SURVEYING, Drawing

DRAINAGE

Key problem in Nassau County, Long Island,*, map. p30 Oct 3
Israelis complete Huleh scheme. p57 Dec 19

DREDGING see: EARTHMOVING

DRILLS see: EQUIPMENT, Drills

DROUGHT see: WATER SUPPLY, Drought

DRYDOCKS see: PORTS AND HARBORS

E

EARTHMOVING, DREDGING see also: EQUIPMENT; HAULING

St. Lawrence Seaway excavation costs. 2 RCs p8 Jul 11
Deepening Amherstburg Channel with barge-mounted drills,*. p55 Jul 11
Floating ranges for dredging St. Lawrence Seaway. p78 Jul 18
Dredging Black Lake, Quebec, to uncover asbestos deposit,**. p40 Aug 1
Sales and profits in earthmoving machinery table. p171 Aug 15
Sierra Nevada rockfill dams: rock excavation and moving job,**. p38 Aug. 29
Hydraulic excavator has 40 mph road speed,*. NP p57 Sep 26
Dredge and freighter collide in Oregon, helicopter rescue operation. p75 Sep 26
Portable dredge output is high. NP p61 Oct 3
Levee setback, Mississippi, unit prices p68 Oct 3
Versatile backhoe increases speed. NP p51 Oct 10
New model in heavy rock rippers. NP p51 Oct 10
Calif. roadbuilders want equipment fees dropped. p76 Oct 10
Mooring basin dredged at Lynn, Mass; unit prices. p224 **Oct 17**
Dredging starts on new Hawaiian harbor. p56 Oct 24
Crawler equipment for excavations. NP p59 Oct 24
Front end loader by Thew enters field,*. NP p89 Nov 7
San Francisco Dredging Co. dissolved after 73 yrs. p147 Nov 7
Equipment must be licensed to move over Penna highways. CW p21 Nov 14
*Alameda dredge launched. p25 Dec 12
Mobile crane excavator designed for versatility,*. NP **p48** Dec 19

EARTHQUAKES see: ACCIDENTS; BUILDING CODES; DESIGN

EDUCATION see also: AWARDS; ENGINEERING; LABOR, Apprenticeship

John S. McNown, new engring dean Kansas U,*. p84 Jul 11
Lehigh civil engineering graduates start at $457 a month. p140 Jul 11
G. A. Danes, Yale architectural dean. p84 Jul 18
Engineers and education conference set for Fall. p74 Jul 25
Metric equivalents urged in scientific papers. e p128 Aug 8
Hwy personnel training courses to be expanded in Maryland. p94 Aug 15
Rhode Island educates engineers for others. p94 Aug 15
Graduate program in sanitary engineering.* B p33 Sep 5
St. Louis students design, build, and test paraboloidal roof,*. p94 Sep 12
Ironworkers train in use of new materials and techniques. p150 Sep 12
Engineers on TV educational series. p58 Sep 26
Colorado Hwy Dept to refund course costs to employees. p26 Oct 10
12 instead of 9 mos. of school to increase engineering education facilities. CW p65 Oct 17
Discussed at ASCE annual meeting. p21 Oct 24
Education for construction management. CW p19, p23, p145 **Nov 7**
and RC p6 **Dec 26**
Perini Corp. trains college boys to become construction supers,*. p145 **Nov 7**
Recruitment of students into civil engineering is priority problem. e p168, Nov 14
Education in construction. e p128 Nov 21
Operator school approved for Texas apprentices. p90 Nov 28
Research, Russia and us. e p100 Nov 28
Secrecy hurts progress. e p192 **Dec 5**
Civil engineering at Cornell. RC p12 Dec 26
Committee on Scientists and Engineers: stress on science irks artsmen. p23 Dec 26
Kentucky marks 10th year of road engineer training. p48 Dec 26
Hwy study fellowships at Yale. p48 Dec 26

ELECTRONICS

Digital computer will analyze 1950 Columbia River report. p78 Jul 18
Lightweight seismograph for subsurface exploration,* NP p45 Aug 1
Roof trusses analyzed by computer, diag. p60 Aug 15
Digital computers solve wave equation when hammer hits pile, graphs. p46 Sep 5
MIT's new hway design method, graph. p97 Sep 5
TVA to employ king size computer. p29 Sep 19
Boston hwy engineering conference: computers ready to roll,* p21 Sep 26
Computers aid pile driving. e p120 Sep 26
Electronic scale debate. 2 RCs p33 Oct 17
ASCE annual meeting looks at computers. p21 Oct 24
IBM small computer marks departure from punched card system,*. NP p75 Nov 14
Two automatic line plotters,*. NP p69 Nov 21
Automation in fire fighting. e p128 Nov 21
Minn hwy engineers to use computer. p33 Dec 12
Computers in pile driving. RCs p6 Dec 19
Building frame analyzed by computer, diag. p34 Dec 19
"Brain" is the wrong word for computers: they will never think. e p88 Dec 26

ELEVATORS, LIFTS

Elevator contract, Chase Manhattan Bank NYC, largest ever awarded. CW p19 Jul 11
Bucket elevator line adds new high capacity series. NP p61 Oct 3

ENGINEERING see also: CONSTRUCTION; EDUCATION

Canadian engineers seek extended voting privileges. p23 — Jul 4
Engineering Institute of Canada elects new president,*. p53 — Jul 4
Agricultural engineers celebrate 50th anniversary. GW p19 — Jul 11
World Construction Year, 1960, proposed. CW p19 — Jul 11
Cost engineers to set estimating standards. p137 — Jul 11
New unity proposal: Electrical engineers offer their ideas,*. p23 — Jul 18
John D. Jarvis, appointed Ill. supervising architect. p86 — Jul 18
"Behind every good man": engineers' wives. e p160 — Jul 18
Engineers and education conference set for Fall. p74 — Jul 25
Japanese consulting firm to check IREX data on Syrian railway. p52 — Aug 1
NSPE fills eight posts for term ending July 1958,*. p54 — Aug 1
Societies consider thorny problem: should corporations practice engineering. e p96 — Aug 1
Worthwhile goal: societies should screen applicants for civil posts. e p96 — Aug 1
Societies buy new HQ site at UN Plaza,*,map. p28 — Aug 8
Colorado engineers plan society bldg.*. p106 — Aug 8
Michigan consulting engineers organize. B p34 — Aug 15
Don't do it yourself; against amateur construction. e p196 Aug 15, RCs p10 Sep 12, p8 — Oct 31
Another Plan for unifying the profession. e p96 — Aug 29
Excellent site for new societies' HQ bldg. e p96 — Aug 29
Boston's was the oldest engineering society. RC p10 — Sep 5
Greeting to engineers. RC p10 — Sep 12
Hartford employees form engineering club. RC p8 — Sep 19
Unity in the engineering profession. CW p19 — Sep 19
Engineering profession psychoanalyzed,*. p23 — Sep 19
Civil Engineers' Book Club formed by McGraw Hill. p63 — Sep 19
Engineers of other years and of today. e p168 — Sep 19
Career satisfaction of engineers in industry. p27 and e p120 — Sep 26
Fund drive for HQ bldg to get started. CW p17 — Oct 3
Funds needed for survey of engineering profession. CW p17 — Oct 3
Russian-made satellite: defeat and challenge. e p96 — Oct 10
Organizing reappraisal. CW p65 — Oct 17
Index of engineering services costs, graph. p332 — Oct 17
Importance of technical library research. RC p9 — Oct 25
NSPE, Sputnik and unity of engineering. CW p17 — Oct 25
Union mapped; Guild in Los Angeles to be formed. p80 — Oct 24
Hired hails not good enough for professional activities. e p96 — Oct 24
Are engineers intelligent slobs? RC p12 — Oct 31
Queen Elizabeth II gives good advice on responsible information. e p100 — Oct 31
Discussion on engineering curriculum: can construction be taught in college?*, p23 . . . RCs p6, p12 — Nov 7, Dec 26
Surveyors are engineers, says ASCE task committee. p29 — Nov 7
Foreign competition tightens overseas,*. p25 — Nov 14
Plumbing Engineering Council endorsed. CW p17 — Nov 28
Engineers and architects outlook for 1958, table. p23 — Dec 5
Close look at insurance, table. p166 — Dec 5
Australian Engineering Club desires international contacts. RC p13 — Dec 12
Interchange between science and engineering essential. e p88 — Dec 26

• Employment, Fees, Manpower

Small firm favors hiring summer engineering students. RC p11 — Jul 4
ASAE celebrates 50th anniversary; cites need for agriculture engrs. CW p19 — July 11
ASCE report shows salaries up in all employee grades. p30 — July 11
Lehigh civil engineering graduates start at $457 a month. p140 — Jul 11
June 6th salary article questioned. 2 RCs p10 — Jul 18
Calif state engineers get 10% pay increase. p33 — Jul 18
Return to 1930 salary progressions favored. RC p8 — Aug 1
Job shops: a big business that's getting bigger. p74 — Aug 1
BPR's support of "no raiding clauses" is wise move. e p96 — Aug 1
Rhode Island educates engineers for others. p94 — Aug 15
Salary gains challenged. RC p10 — Aug 22
High engineering costs of Phoenix airport improvements. CW p17 Aug. 29 and RC p8 — Nov 14
Comments on profession and salaries. RC p10 — Sep 5
Engineer shortage. e p160 — Sep 5
Recruitment of students into civil engineering is priority problem. e p168 — Nov 14
Engineer shortage: demand to exceed supply through 1960. p33 — Dec 12

• Licensing, Registration, Unionization

Pa. to permit out-of-state designers on commonwealth projects. p25 — Aug 1
Professionals win plea for a separate election. p113 — Oct 3
Final plans to be drawn for national organization of engineering unions. p81 — Oct 10
RC p14 — Nov 14
Overseas group for construction workers. p81 — Oct 10
Corporate engineering blocked in Idaho. p75 — Oct 17
NSPE official sees end to unions for engineers. p150 — Nov 7

• Societies

American Society of Civil Engineers:
Salary committee reports pay up in all employee grades. p30 — Jul 11
To study water resources. p25 — Jul 18
Peak membership. B p34 — Aug 15
Organizing reappraisals? CW p65 — Oct 17
Annual meeting's critical look; many papers discussed,*. p21, p64 — Oct 24
Society's self-analysis. e p100 — Oct 31
Engineers Joint Council:
E. R. Needles for president. CW p17 — Oct 10
Joseph Barker gives viewpoint on professional unity. p71 — Oct 17
Unity through EJC, says ASCE annual meeting. p21 — Oct 24
National Society of Professional Engineers:
Honors T. Keith Legare, first Secretary,*. p83 — Jul 18
Fills eight posts; G. H. Dyer new president. p54 — Aug 1
Board of Directors meets. CW p17 — Oct 25
Clark Dunn nominated for presidency. CW p17 — Dec 19

ENGINEERING NEWS-RECORD

50 yrs a subscriber. RC p10 — Sep 12
ENR aid to education award presented at APWA meeting. p23 — Oct 3

ENGINEERS JOINT COUNCIL see: ENGINEERING, Societies

EQUIPMENT see also: HAULING

Orders lag for third straight month, graph. p130 — Jul 25
Machinery prices going up, table, graph. p171 — Aug 15
Upturn expected in construction machinery orders, graphs. p145 — Sep 19
Prices, rental rates, graphs, tables. p139 — Oct 17
Machinery orders dip, graph. p382 — Oct 17
Equipment prices up, table, p383 — Oct 17
Road building equipment show planned for 1963. CW p17 — Oct 31
Construction machinery orders steady in Sept, graph. p107 — Nov 21
Decline continues in equipment expenditures, table, graph. p72 — Dec 19

• Compaction

Device converts motor grader into compactor,*. NP p68 — Aug 8
Self propelled multi wheel pneumatic compactor. NP p75 — Aug 22
Vertical-Pak roller offers uniform compaction,*. NP p88 — Sep 12
Roller provides high density compaction,*. NP p84 — Dec 12

• Cranes, Derricks, Hoists; Shovels

Carriers for crane, shovel, backhoe manufacturers marketed. NP p45 — Jul 4
Truck crane on rails erects steel frame, Pittsburgh office bldg,*. p52 — Jul 18
Heavy duty crane added to Lorain line. NP p69 — Aug 3
Boom spot indicator will aid close work,*. NP p86 — Aug 15
Dolly converts into crane,*. NP p75 — Aug 22
Crawler mounted erection boom does many jobs,*. NP p74 — Sep 19
Hydra-X-Cavator crane has 40 mph road speed,*. NP p57 — Sep 26
Crane specially designed for stationary mounting. NP p63 — Oct 3
Hoist carrier has extra hoist for dumping. NP p81 — Dec 12
Power controls simplified for crawler crane rig. NP p84 — Dec 12
Mobile crane excavator designed for versatility,*. NP p48 — Dec 19

• Crushers and Screeners

Heavy media separation plant ready for aggregates. NP p54 — Oct 31
Huge jungle crusher for virgin lands,*. NP p54 — Oct 31
Portable screening plants added to Pioneer line,*. NP p69 — Nov 21

• Drills

Truck-mounted drill is mobile, fast,*. NP p45 — Jul 4
Drill rig deepens Amherstburg Channel,*. p55 — Jul 11
Tractor mounted rotary air drill for heavy jobs,*. NP p68 — Aug 8
Uni-drill electric hand tool gives impact and rotary motion,*. NP p75 — Aug 22
Rock drills in California dam construction,*. p38 — Aug 29
Floating rig takes core samples in deep swift water,**,diag. p60 — Sep 12
Lightweight diamond drill can take 6 in. cores. NP p73 — Sep 19
Prepared holes ease floor slab drilling,*. p65 — Sep 26
New designs in offshore drilling rigs,**. p54 . . and p38 — Oct 3, Oct 24
"Weep hole" drill designed to reduce slides,*. NP p51 — Oct 10
Improvised overwater boring rig,*. p87 — Nov 7
Test core drill ready for hwy testing,*. NP p89 — Nov 7
Jet flame sinks blast holes faster,*. p88 — Nov 14
*Joy Model 125 blast hole drill. NP p72 — Nov 21

• Scrapers

*Tiny scraper built for small track-type tractors. NP p45 — Jul 4
Small scraper incorporates scarifier,*. NP p76 — Aug 22
Medium range scraper introduced by Allis-Chalmers,*. NP p76 — Aug 22
Low bowl scraper designed for use with big tractor. NP p58 — Oct 24

• Tools

Union limitations on use of construction tools questioned. p82 — Aug 1
Lightweight chain saws can produce 6.5 hp. NP p58 — Oct 4
Power tools for do-it-yourself. RC p8 — Oct 31
Heavy duty bar benders take up little space. NP p89 — Nov 7
Small concrete saw has self propulsion,*. NP p76 — Nov 14

• Tractors and attachments, Loaders

Power digger designed for Ford tractor,*. NP p45 — Jul 4
Trencher is attachment for I-H utility tractor. NP p57 — Jul 25
Reserve cable supply reel available for Caterpillar dozers. NP p45 — Aug 1
Detachable grousers increase loader production. NP p45 — Aug 1
Dolly converts tournapull for road travel,*. NP p75 — Aug 22
Mobile loader unit has extra high lift,*. NP p66 — Oct 3
Backhoe for IH tractors can handle many jobs. NP p51 — Oct 10
Rock ripper for heavy duty developed for Emco tractor. NP p51 — Oct 10
Loader has high break-out power,*. NP p58 — Oct 24
Low bowl scraper designed for big tractor. NP p58 — Oct 24
All-weather cab produced for popular make tractors,*. NP p59 — Oct 24
Tractor travels on cylindrical tires,*. NP p59 — Oct 24
Tractor offers better trailer-truck maneuvers. NP p54 — Oct 31
Dozer, tractor, ripper on single machine,*. p82 — Nov 7
Boron-alloy sprockets used on Cat D8 and D9. NP p89 — Nov 7
Cat makes additions to traxcavator line,*. NP p90 — Nov 7
Thew Shovel Co. front end loader enters field,*. NP p89 — Nov 7
Front-end loader has exceptional maneuverability, versatility. NP p78 — Nov 14
Crawler tractor added to Oliver line,*. NP p71 — Nov 21
*Tractor-shovel ripper. NP p72 — Nov 21
Ford's powerful tractors,*. NP p85 — Dec 5
Power loader for utility tractors,*. NP p81 — Dec 12
Automatic blade control aids grading operation. NP p82 — Dec 12
Double duty tractor handles dam gates,*. p96 — Dec 12
Low silhouette rear dump squats for easier loading,*. NP p49 — Dec 19

• Various

Threaded nails, spikes show strength in lab tests. p73 — Jul 11
Dolly converts tournapull for road travel,*. NP p75 — Aug 22
Spreader converts dump truck,*. NP p75 — Aug 22
Sand and cinder spreader for ice control,*. NP p47 — Aug 29
Motor grader attachment speeds finish grading,*. NP p64 — Sep 5
Sleds move equipment through swamp, Tonawanda, N.Y.,*. p68 — Sep 5
Special truck services a big earthmoving and paving fleet. p68 — Sep 5
Three new brooms for hwy maintenance,*. NP p73 — Sep 19
Steel measuring tape has eighths and tenths. NP p73 — Sep 19
Jungle smasher to clear virgin lands,*. NP p54 — Oct 31
Power steering unit goes on any motor. NP p89 — Nov 7
Tournapull has choice of transmissions, automatic lock-up clutch. NP p75 — Nov 14
Huge construction machinery tires to be molded in aluminum forms,*. NP p70 — Nov 21
Portable vehicle scales,*. NP p86 — Dec 5
Spreader doubles for aggregate, ice control. NP p47 — Dec 26

EROSION see: SOIL MECHANICS

EXCAVATION see: EARTHMOVING

EXHIBITIONS see: BUILDINGS; Exhibitions, Fairs

EXPLOSIVES see also: EQUIPMENT, Drills

Blasting lessons in Venezuela's open pit iron mines,*. p52 — Aug 8
Largest controlled blast for railroad rockfill across Great Salt Lake,**. p28 — Aug 15
Fatal blast at Oswego tunnel, N.Y., kills 4 workers. p24 — Aug 22
Oswego tunnel blast laid to gas. p23 — Aug 29
Montreal bridge "blasted" for raising operation,*,diag,map. p32 — Aug 29
Movie check of Arthur Kill cofferdam blast,*. p42 — Sep 5

Demolishing stubborn Washington apartments,**. p58 — Sep 5
Lack of dynamite on Hawaii; plant constructed. CW p19 — Sep 12
How to blast concrete,*,table. p104 — Nov 7
Jet flame sinks blast holes faster,*. p88 — Nov 14

F

FANNIE MAE (Federal National Mortgage Assn) see: HOUSING
FEDERAL HOUSING ADMINISTRATION see: HOUSING
FIRE AND FIRE PROTECTION
Fire potentials more in old or new bldgs? 2 RCs p10 — Jul 11
Automation in fire fighting. e p128 — Nov 21
Brussels Fair fire risks. RC p15 — Dec 5
FISH
*Pelton Dam spillway, Deschutes R., to keep fish away from rocks. p26 — Aug 1
Novel fish guiding device tested, diag. p52 — Oct 10
FLOODS see also: RIVERS
Corps estimates southwest spring flood damage at $125 million. p26 — Jul 4
Federal flood insurance shelved; Congress refuses money. p79 — Jul 4
Low flood control, rivers and harbors bill in the House. p23 — Jul 25
Terrace Reservoir Dam, Colo. failure,*. p25 — Aug 1
Three small dams fail, flood hits Las Vegas, N.M. p28 — Aug 8
Concrete slabs for a flood control project in Pa,* p90 — Sep 19
Blackstone river flood control project faces water shortage. p26 — Sep 26
Annual drawdown starts on TVA reservoirs. p58 — Oct 3
Dam sections wash out, small flood in Florida. p26 — Oct 10
Columbia Basin flood control storage table. p72 — Oct 17
Sioux River spillway chute unit prices. p222 — Oct 17
Ankara, Turkey, flood was deadly mud bath,*. p68 — Nov 14
Iraq's flood control projects,*,map. p34 — Dec 12
Torrington speeds flood control,*. p142 — Dec 12
FLOORS
Standards for concrete floor finishes. p105 — Nov 7
FLUORIDATION see: WATER SUPPLY
FOUNDATIONS see: CAISSONS; SOIL MECHANICS
FRAMES see: CONCRETE; STEEL; see also: BEAMS; DESIGN
FROST, ICE, SNOW
Sand and cinder spreader for ice control,*. NP p47 — Aug 29
Rust inhibitor renders salt-slush non corrosive to vehicles. NP p57 — Sep 26
Permafrost protection for arctic piles. CW p19 — Nov 7

G

GARAGES see: BUILDINGS, Garages; see also: PARKING
GENERAL SERVICES ADMINISTRATION
Lease purchase returns to the field. p80 — Oct 31
Lease purchase fails to attract bidders. p25 — Dec 19
GEOPHYSICAL YEAR
Russian-made satellite: defeat and challenge. e p96 — Oct 10
GIRDERS see: BEAMS
GLASS
Demand dips, not prices. p106 — Aug 22
GRAVEL
Upgrading low-grade gravel by bouncing,*. NP p87 — Sep 12
River gravel solidified for Dartford Tunnel lining. Eng., map, diags,*. p58 — Nov 14
GROUTING
Use and methods for Dartford Tunnel, Eng, map, diags,*. p58 — Nov 14

H

HAMMERS see: EQUIPMENT, Tools
HAULING, MATERIAL HANDLING see also: EQUIPMENT; TRANSPORTATION
Air moves cement at St. Lawrence Job,*. p48 — Aug 8
Sleds move equipment through swamp at Tonawanda, N. Y.,* p68 — Sep 5
Dump body for sand and gravel haulage. NP p57 — Sep 26
Silo and trailer for fast unloading of dry cement. NP p57 — Sep 26
Kenworth builds its biggest rear dump rock movers,* NP p61 — Oct 3
Mobile loader unit "Sky-Hy Lift" is versatile,*. NP p66 — Oct 3
Load capacity high, price low for new trailer,*. NP p51 — Oct 10
Dual dump trailers double the payload,*. NP p58 — Oct 24
Heavy hauler adapted for on-hwy work,*. NP p90 — Nov 7
Buckets move materials to Wu-Sheh Dam, Formosa,*. p65 — Nov 14
Tournapull has choice of transmissions, automatic lock-up clutch. NP p75 — Nov 14
HEALTH
Public Health Asso to help communities cope with changing problems. p33 — Sep 19
B. F. Mattison, Penna health officer, becomes NYC's Health Asso. secretary. p54 — Dec 26
HEATING see: AIR CONDITIONING, HEATING
HIGHWAY DESIGN
MIT's new hway design method, graph. p97 — Sep 5
Boston conference: computers ready to roll, photogrammetry progress,*. p21 — Sep 26
Wyoming hways to have contrasting colors between roadway and shoulder. CW p17 — Oct 3
HIGHWAYS see also: PAVING; SAFETY; TRAFFIC
Interstate program causes conflict over utilities relocation cost. p24 — Jul 4
Plans complete for Pan American Highway Congress, Aug. p48 — Jul 4
Interstate program on schedule; limited access only problem,*, table. p23 — Jul 11
State legislatures push on legal, monetary issues. p25 — Jul 25
BPR gets mounting road mileage requests, map, table. p26 — Jul 25
Fed'l-aid jobs second-quarter bids steady. CW p17 — Aug 1
BPR's non-support of no-raiding clauses is wise move. e p96 — Aug 1
Federal allocations for 1958 and 1959, table. p26 — Aug 8
ARBA told money will be available for federal program. p26 — Aug 22
BPR approves 2100 miles toll hways into interstate network. p23 — Aug 29
Toll roads: general financial report of all turnpikes,*. p76 — Aug 29
Toll roads come into the net. e p168 — Sep 12
Interstate road sign design settled. p25 — Sep 19
Planners see conflict in road program with cities. p26 — Sep 19
Studies for interstate net readied. p22 — Oct 3
Cost indexes; composite mile cost, graphs, tables, pp103-11 — Oct 17
Bid price trends in various states, tables. p260 — Oct 17
How payments raise costs, lower contractors' profits, table. p293 — Oct 17
Hway officials talk over interstate program issues. p27 — Oct 24
New business also means new problems,*. p75 — Oct 24
Road show planned for 1963. CW p17 — Oct 31
"Saved" miles added to US road system, map. p26 — Oct 31
Hwy dept salaries. RC p12 — Nov 7
What is happening to interstate roads, chart, graph, table. p19 — Nov 21
Road building program is on schedule, AASHO agrees. p26 — Nov 28
Road prices slip as bidders increase, graphs. p83 — Nov 28
Progress and problems mark road work. p33 — Dec 5
Patience on road program. e p192 — Dec 5
City expressways—solution to traffic jam. p28 — Dec 12

• American
Alaska
Canada to aid building Cassiar-Stewart link. p55 — Aug 22
Arizona
New cross state hwy under study. p26 — Oct 10
Land speculation charges force road change. p76 — Oct 17
Arkansas
Money squeeze on hway, building programs. p134 — Jul 11
Debate over hway restrictions on wide house trailers. CW p19 — Jul 18
Some federal help received. CW p19 — Aug 8
California
*First double-deck freeway, Oakland, open to traffic. p29 — Jul 18
*First mobile truck "weigh station" in Sacramento. p28 — Jul 25
Roadbuilders want some equipment fees dropped. p76 — Oct 10
Illuminated hwy signs in Alameda County; unit prices. p250 — Oct 17
Concrete traffic separators to undergo painting tests. p308 — Oct 17
Freeway includes pumping plant; unit prices. p62 — Oct 31
Colorado
Hwy Dept troubled by quitting epidemic. p25 — Jul 18
Hwy Dept to refund course costs to employees. p26 — Oct 10
Connecticut
Turnpike bonds to be backed with state credit. CW p17 — Aug 1
Turnpike bond issue pays 3.6%. p176 — Aug 15
Pike builders race for the finish line,**, map. p56 — Sep 19
Delaware
State legislature delays hway bills. p140 — Jul 11
Route details set for Wilmington Freeway. p24 — Oct 3
Florida
Cost doubled on Interstate system. p78 — Aug 1
Miami-Fort Pierce turnpike to be extended 100 miles. p100 — Sep 26
Unit prices. p275 — Oct 17
Georgia
Geo. T. McDonald retires from state hway board. p93 — Jul 25
and RC p16 — Aug 8
Hawaii
Protests against tax without benefit. CW p19 — Dec 5
Illinois
Ottawa test road high-cost factors to be changed. p24 — Jul 11
Legislature votes $643m construction program. p142 — Jul 11
Contract let for AASHO test road, Ottawa. p30 — Sep 19
Indiana
Hutcheson's stand on land-purchase to provoke union showdown. p146 — Jul 11
Road bureau to be stripped of purchasing functions. CW p19 — Jul 18
Two convicted in land buying scandal. CW p15 — Nov 21
Iowa
Bid price trends table. p263 — Oct 17
Kansas
Bid price trends table. p268 — Oct 17
Kentucky
Hardin County job picketed; policy dilemma. CW p21 — Aug 15
By-pass community if right-of-way price too high. CW p17 — Aug 22
$35m road bonds sale scheduled. p75 — Oct 10
$35m road bonds sold p107 — Nov 21
Roadbuilding firms' data may be revealed by state. p109 — Nov 21
10th year of road engineer training. p40 — Dec 26
Louisiana
Interchange with elevated roadway to speed New Orleans traffic,**, diag. p38 — Jul 11
Maine
Pike vs free road between Portland and Yarmouth discussed. CW p17 — Dec 26
Maryland
Billboard-free hways being created. p22 — Jul 25
Hwy personnel training courses to be expanded. p94 — Aug 15
Massachusetts
Amvet's memorial hway relocation, Mass, unit prices. p98 — Jul 18
Rhode Island wants recognition on Mass pike. p27 — Sep 5
Essex-Ipswich hwy reconstruction; unit prices. p276 — Oct 17
Michigan
T-beam grade separation near Jackson City; unit prices. p60 — Aug 29
Minnesota
Hwy engineers to use computer. p33 — Dec 12
Mississippi
Structures on access road; unit prices. p60 — Aug 29
Missouri
Bid price trends table. p263 — Oct 17
Montana
Hway No. 20 finished after 27 yrs. p24 — Oct 10
Nebraska
Hway dept promises protection for historical sites. CW p17 — Jul 4
Money difficulties. p25 — Sep 19
New Hampshire
Interstate highway and bridges; unit prices. p112 — Nov 14
New Jersey
Synthetic rubber for road seal, Salem County. CW p19 — Sep 5
Turnpike will use foghorns for safety. p52 — Oct 10
New Mexico
Will cows use underpass? CW p19 — Sep 19
Roads and bridges unit prices. p66 — Oct 24
New York
NY link, Penn-Canada Expressway, unit prices. p61 — Aug 1
Buffalo roads: a case study in hwy integration,*, map. p62 — Aug 15
Long Island Expressway builders' headache: traffic and utilities,**, map. p50 — Sep 26
New England part of NYThruway shows drop in costs. p99 — Sep 26
Nassau County fast growth raises problems,*, map. p30 — Oct 3
Bid price trends table. p260 — Oct 17
Arches provide new connection for old parkway, Long Island,**. p31 — Oct 24
Erie Thruway to open—10 months late,*, map. p53 — Nov 7
Thruway authority will not require separate bids. CW p17 — Dec 12
Clinton Brill becomes Thruway Authority chairman. p98 — Dec 12
North Carolina
Willard F. Babcock to head hway. dept. p83 — Jul 18
W. F. Babcock: teacher moves to top road job,*. p58 — Oct 31
Highway widening unit prices. p126 — Nov 7
Ohio
State supreme court backs axle-mile tax for highway use. p77 — Jul 4

Suit over hway dir's status may delay road plans progress. p28 Jul 25
Sub-professional supervises roadbuilding. p26 Sep 5
Asphaltic concrete resurfacing unit prices. p126 Nov 7
Oklahoma
Pike to finish with surplus of funds. p110 Aug 22
Financial difficulties. p25 Sep 19
• Will Rogers Turnpike overpass contains restaurant. p25 Dec 12
Oregon
Average unit prices for the state. p272 Oct 17
Pennsylvania
Retainage law eases roadbuilders capital. p23 Jul 4
Legislature rejects Leader's bill to eliminate Pike commission. p77 Jul 4
Pittsburgh's new interchanges: traffic-breaking projects,•, maps. p64 Jul 11
Turnpike trial finds Evans, four others guilty. p23 Aug 1
Lightning destroys 700 ft section, US Route 219,•. p24 Aug 1
No more three-laners. CW p17 Aug 22
Hwy Dept workers may join union. p145 Sep 5
Plans for limited access road across state. p33 Sep 19
Lawler quits hway job, becomes Pike commission member. p33 Sep 19
Earthmoving equipment must be licensed to move over highways. CW p21 Nov 14
End of the story: state defrauded on mine-filling contract. CW p17 Nov 28
M. Baker consultants get pike agreement. p24 Dec 12
Rhode Island
Wants recognition on Mass pike. p27 Sep 5
Interstate hwy makes smallest state smaller,••, map. p30 Oct 10
Rising land prices. CW p65 Oct 17
Consultants used for 75% of hwy design work. p75 Dec 26
South Carolina
State hwy comm. approves pay increases. B p30 Aug 8
Bid price trends table. p264 Oct 17
Tennessee
Four cities to aid state on road land. p104 Aug 8
TV programs help public relations. RC p9 Aug 22
Big money issue. p25 Sep 19
State seeks close check on costly right-of-way. p73 Oct 17
Texas
New route to Mexico City. p58 Aug 22
Utah
E. L. Armstrong, first Road Commission Director. p86 Jul 18
Virginia
Richmond-Petersburg pike: bond financed city expressway,••, maps. p30 Jul 4
and RC p8 Aug 1
Parkway plate girder viaducts unit prices. p101 Sep 12
Bridge tunnel hwy connection unit prices. p78 Sep 26
James Anderson, hwy commissioner, retires. p98 Dec 12
Vermont
Tar coat, seal Wallingford road, unit prices. p61 Aug 1
State wins on right of way dispute. p29 Aug 8
State blocks contracts with outside firms. p79 Oct 10
Public relations director to be appointed. CW p17 Oct 25
West Virginia
Turnpike heads toward default, map,•. p380 Oct 17
Wyoming
Contrasting colors between roadways and shoulder areas. CW p17 Oct 3

• **Foreign**
Africa
Road Congress urges Cape Town-Nairobi route for heavy trucks. p73 Sep 5
World Bank loan gives impetus to Ethiopia's road program,•, map. p51 Oct 24
Argentina
Road building in Corrientes study contract awarded to U.S. firm. p51 Aug 1
Cordoba-San Juan mountain road approaches completion. p70 Nov 7
Funds to improve hwys. p44 Nov 28
Belgium
Elevated hwy for World Fair,•. p36 Sep 26
Bolivia
US contractor offers $16m bld. p54 Aug 8
Brazil
Hwy paving work to get a push. p76 Nov 7
Canada
To aid construction of Alaska hwy link. p54 Aug 8
Trans Canada road link opens in Saskatchewan. p66 Sep 26
Ecuador
Four key hwys mapped,•. p47 Oct 31
France
Private funds sought to pay for road work. p88 Sep 19
Inter-American Hway
Second contract needed to complete El Tapon section. p48 Jul 4
Mexico urges US aid for road south of Panama at Panamerican Congress. p25 Aug 22
Italy
Milan-Naples hwy has 1958 deadline. p76 Dec 12
Mexico
New link between Mexico City and US is shortest. p58 Aug 22
Mexico City expressway•. p58 Nov 21
Middle East
Lebanon's mountain hwy. p28 Nov 21
Iraq's big program, map,•. p34 Dec 12
Peru
Canyon road to be rebuilt. p52 Oct 24
Russia
Poor hwys described by ENR eyewitness. p28 Dec 26

HOISTS see: EQUIPMENT, Cranes, Hoists
HOTELS see: BUILDINGS, Apartments, Hotels
HOUSING see also: BUILDINGS, Apartments, Homes; CITIES
NYC's Manhattantown project to get new sponsor. p24 Jul 4
House passes compromise bill; more money for mortgages, Fannie Mae. p79 Jul 4
Chicago homebuilders capitulate to contractors' wage rates. p83 Jul 4
Singapore's low-cost, low-rental public housing,••. p79 Jul 11
Low-cost housing, Panama may be sponsored by AFL-CIO. p62 Jul 18
Our poorly-planned houses: need for progress. e p160 Jul 18
FHA cuts downpayments, table. p108 Aug 8
A. M. Cole, housing chief, wins victories,•. p21 Aug 22
NY research aims at future savings in multiple dwelling housing. CW p17 Aug 29
Homebuilders' dream turns into a nightmare: discount rules,• p21 Aug 29
AFL-CIO unions aid Red Cross in bldg homes for hurricane victims. p81 Aug 29
Six banks join to provide Portsmouth Air Base housing loan. p138 Sep 5
Hope for veterans home loans bill. CW p19 Sep 12
Bricklayers criticize veto of Vet Housing Bill. p149 Sep 12
Builders and suppliers see mutual problems, NAHB meeting. p148 Sep 19
Canada supports home building industry. p151 Sep 19
Home week promotion rings the bell. p101 Oct 3
Discount controls on mortgages called price fixing. CW p65 Oct 17
New York public housing costs, table, graph. p287 Oct 17
Rationing of building permits for new houses is illegal. CW p17 Oct 31
NAHB—15 yrs of housing crises,•. p81 Oct 31
Nat'l Ass. of Real Estate Bds. convention discusses FHA loans. p146 Nov 14
Electrical union funds used for home financing in Calif. p153 Nov 14
BLS housing starts figures off 10%. CW p15 Nov 21
HURRICANES see: WIND see also: ACCIDENTS
HYDRO-ELECTRIC POWER see: DAMS; POWER; RIVERS; WATER SUPPLY AND RESOURCES

I

ICE see: FROST, ICE, SNOW
INCINERATORS see also: AIR POLLUTION
Philadelphia's expanded incinerator program,••. p56 Jul 18
Furnaces and boilers for Mass. Incinerator bldg; unit prices. p101 Dec 12
INDUSTRIAL PLANTS, DEVELOPMENT, SITES see: ATOMIC ENERGY; BUILDINGS, Industrial Plants; POWER PLANTS AND UNITS
INDUSTRIAL WASTES see: SEWAGE
INSURANCE
Base rate compensation insurance for construction, table. p175 Oct 17
Engineering takes close look at insurance, table. p166 Dec 5
Insurance for engineers. e p88 Dec 19
INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
Tanganyika to get $4.8 mil loan for port work. p52 Aug 1
Ethiopia gets loan for hwy program,•, map. p51 Oct 24
IRRIGATION see also: CANALS; RIVERS; WATER SUPPLY
Cattle take over from machines to build deflector dam on the Arabian Sea,•. p51 Aug 8
Irrigation and hydro construction cost indexes, table, graphs. p97 Oct 17
Litani River project, Lebanon,•, map. p28 Nov 21
Iraq's projects,••, maps. p34 Dec 12

J

JACKS
Jacques Cartier bridge, Montreal, eased up by jacks for lifting operations,• p52 Aug 15
Water storage tank elevated, N.C.,•. p36 Sep 12
Maine sewer bid includes jacking; unit prices. p78 Sep 26

L

LABOR see also: Safety; Trades
Organized labor helps all. RC p11 Jul 4
Impressive labor record behind building Tidewater's Del plant,••. p134 Jul 25
Builds safety records, St. Lawrence Seaway's Grasse River project,•. p80 Aug. 1
B. Leedom comments on improper activities. p151 Nov 14
• **AFL-CIO**
24 states have merged federations. p83 Jul 4
No-raiding pact called satisfactory. p86 Jul 4
New jurisdictional peace plans for inter-union dispute. p145 Jul 11
Unions protest Mich. nuclear reactor construction. p146 Jul 11
Hutcheson's refusal to testify may provoke union showdown. p146 Jul 11
May sponsor low-cost housing program, Panama. p62 Jul 18
NY merger stalled by bldg trades, industrial unions dispute. p81 Aug 1
Clash with UCW on Barkley Dam project. p81 Aug 1
New problems with Hoffa and teamsters,•. p111 Aug 8
Meany urges management and labor to fight inflation. p115 Aug 8
Building Trades mark time on jurisdiction, Atlantic City meeting,•. p179 Aug 15
No commitments on teamsters, Hutcheson, jurisdiction. p115 Aug 22
Unions aid Red Cross in home building for hurricane victims. p81 Aug 29
Competition with UCW for interstate road work. p82 Aug 29
Meany ties prosperity to trade union goals. p145 Sep 5
Ohio bldg trades propose conditional secession from AFL-CIO. p151 Sep 12
Teamsters must clean house,•. p153 Sep 19
Union members help Ky. contractor after fire. p155 Sep 19
Courts ban hway clash with UCW. p107 Sep 26
Warning teamsters to clean house or get out. p109 Oct 3
Blames inflation on industry not labor. p109 Oct 3
Midwestern bldg trades urge secession from AFL-CIO. p110 Oct 3
Building trades united by AFL 50 yrs ago. p191 Oct 17
Teamsters out, but door is open,• p84 Oct 31
Critical problems ahead: teamsters, jurisdiction. p150 Nov 7
Sen. McClellan condemns employers for anti-union activities,•. p151 Nov 14
Labor Dept. report rise in union membership. p154 Nov 14
Unions protest but construction proceeds on Mich. AEC reactor,• p112 Nov 21
Atlantic City convention's crucial issues. p87 Nov 28
Unionists warned on job rights at Atlantic City convention. p176 Dec 5
Permits for union organizing. p178 Dec 5
Conflicts at Atlantic City convention,• p21 Dec 12
Proposals to curb union abuses,• p146 Dec 12
Seeks higher pay, fairer laws, more members: Atlantic City meeting,• p74 Dec 19
Union-contractor harmony pays off in Texas, labor convention told. p78 Dec 26
Bldg trades appoint regional directors to promote unionization. p80 Dec 26
• **Apprenticeship**
British Columbia boosts apprenticeship program. p82 Aug 1
Operating engineers help apprenticeship promotion. p115 Aug 8
Progress in Florida organization. p115 Aug 8
Apprentices get big dividends, table. p391 Oct 17
Apprentice bricklayers to hold North Carolina state contest. p392 Oct 17
Operator school approved for Texas apprentices. p90 Nov 28
F. J. Rooney trophy goes to J. L. Meggison, Miami plumber apprentice,•. p79 Dec 26
• **Boycotts**
NLRB broadens jurisdictional standards for secondary boycotts. p147 Jul 18
Picket signs ruled not inducing to strike in Va secondary boycott case. p154 Sep 19
Boycott of Burt products comes to an end. p113 Oct 3
Roving pickets violate boycott ban in Atlanta. p151 Nov 7
Supreme Court agrees to clarify secondary boycott law as it affects union use of hot cargo clauses. p153 Nov 14
Hot cargo clauses will produce illegal secondary boycott. p111 Nov 21
• **Contracts, Working Conditions**
Court rules hot cargo clauses valid. p146 Jul 11
Indiana right to work law bans union shop agreements. p145 Jul 11
Growth of long-term contract, good omen in wage negotiations. e p152 Jul 25
Labor agreements, Tidewater's Del plant make for peaceful building,••. p134 Jul 25

Long term pacts for L.A. hod carriers and N.Y. boilermakers. p112 Aug 8
Union work permits not to be charged for. p112 Aug 8
West coast pacts for plumbers and sheet metal workers end strikes. p82 Aug 29
N.Y. plumbers sign area wide contract. p146 Sep 5
Red tape in contracts. RC p15 Sep 26
Union contract signed, San Fran operating engineers and engrg. firms. p102 Sep 26
Boilermakers negotiate a seven state contract. p81 Oct 10
Ohio experiment in pre-season bargaining. p384 Oct 17
New three year contract for R.I. bricklayers. p87 Oct 31
Denver group bargaining. p178 Dec 5
Hot cargo clauses in contracts with teamster. p81 Dec 26

• Jurisdictional disputes
AFL-CIO trades agree to new peace plan for handling inter-union disputes. p145 Jul 11
NLRB to study craft disputes policy. p144 Jul 18
Coliseum Commission, Los Angeles, files countersuit vs. architects. p28 Jul 25
Bldg. trades, industrial union conflict stalls NY merger. p81 Aug 1
Right to work law used by Tenn. union as a defense. p115 Aug 8
Kentucky hway. dept job halted. CW p21 Aug 15
Joint Board seeks autonomy, asks NLRB to enforce its rulings. p113 Aug 22
NLRB upholds contractor claims, New Jersey. p81 Aug 29
Lathers criticize Joint Board. p150 Sep 12
Joint Board seeks NLRB aid. p102 Sep 26
Tenn. power plant construction: agreement seeks to curb jurisdictional disputes. p114 Oct 3
May wane as cost bugaboo,*. p158 Oct 17
Unions fortique craft disputes, N.J. and Wash. projects suffer. p386 Oct 17
Lead to 2 work stoppages on Ice Harbor Dam project. p154 Nov 14
Operating engineers vs. electrical workers dispute decided by NLRB. p113 Nov 21
Bldg. trades industrial unions jurisdictional conflict will be convention crucial issue,*. p87 Nov 28
Delaware labor group offers forum on jurisdiction. p178 Dec 5
Problems at Atlantic City convention,*. p21 Dec 12
Ventilators spark bitter feud; sheet metal workers resist jurisdictional invasion. p80 Dec 26

• Legislation
Russellville, Ga. anti-union ordinance ruled unconstitutional. p83 Jul 4
Right to work action in Calif. p82 Aug 29
Labor asks County repeal of right to work measure, Calif. p153 Sep 12
Right to work laws to be 1958 political issue. p385 Oct 17
Sheet metal worker wins right to work verdict in Arizona. p386 Oct 17
Funds for industry board called violation of law. p386 Oct 17
Ontario contractors seek more vigorous labor laws. p391 Oct 17
Unions join forces to stymie pending legislation on bid shopping. p81 Oct 24
New union laws in the making. p87 Oct 31
Supreme Court agrees to clarify secondary boycott law. p153 Nov 14
Union shop outlawed by new county ordinance. p111 Nov 21
Ohio labor groups head right-to-work opposition. p178 Dec 5

• Strikes, Pickets
NYC construction industry averts strike over wages. p83 Jul 4
Supreme Court restricts peaceful picketing. p84 Jul 4
Cement strike disrupts nationwide construction schedules. p134 Jul 11
Cement strike continues; impedes construction on both coasts. p148 Jul 11
Cement strike poses new threats: disrupts production; higher prices. p138 Jul 18
NYC construction strike ends; settlements reached; wages up. p145 Jul 18
No-strike provision, labor agreement, Tidewater's Del. project. p134 Jul 25
NY, Conn., wage strikes ease up; Calif. plumbers still out. p139 Jul 25
Cement strike settlement expected. CW p17 Aug 1
Carpenters, plumbers end Idaho, Delaware strikes. p180 Aug 15
Calif. plumbers and sheet metal workers pacts end long strikes. p82 Aug 29
Calif. ready mix concrete plan strikes stall construction. p145 Sep 5
Work resumed, wage accords reached in California; Louisville, Ky, painters strike. p149 Sep 12
Arizona court outlaws picketing to protest nonunion help. p151 Sep 12
Montreal bldg. trades strike in protest of association bargaining. p102 Sep 26
Work stoppage resulted in jobless benefit loss in AF job in NY. p157 Nov 14
2 disputes led to work stoppages on Ice Harbor Dam project. p154 Nov 14
Hawaiian strike on housing job fails. p176 Dec 5

• Wages
Steelworkers' raises boost steel prices. CW p17 Jul 4
Wages for bldg tradesmen up in 8 key cities. p77 Jul 4
NYC construction industry averts strike over wages; rates up elsewhere. p83 Jul 4
Wage increases inflationary, Pres. rejects governmental control. p86 Jul 4
Nation's cement workers strike for retroactive pay. p134 Jul 11
Wage disputes, cement industry, impede construction; some gains noted. p148 Jul 11
Cement strike; unions hold out for higher pay. p138 Jul 18
Unions get boost as NYC construction strike ends. p145 Jul 18
Hopeful signs in wage negotiations: long-term contracts, concern over costs, e. p152 Jul 25
Prevailing wage measure repealed by Des Moines City Council. p180 Aug 15
Accords reached on West Coast in ready mix plants. p149 Sep 12
Wage hikes bigger than year ago, US reports. p155 Sep 19
New Mexico contractors seek to upset prevailing wage system. p113 Oct. 3
Prevailing wages hit; open shop employers ask repeal of Baltimore law. p81 Oct 10
Bldg trades wage rates tables. p160-170 Oct 17
Prevailing wage law said to hamper rural projects in Missouri. p157 Nov 14
Minimum wage of concern to construction workers, Meany says. p157 Nov 14
Wage gains highest since 1948. p111 Nov 21
Labor costs called a critical issue. p114 Nov 21
Carolina AGC branch calls for full investigation of Davis-Bacon wage rates. p88 Nov 28
AFL-CIO convention: labor leader asks for wage freeze. p23 Dec 5
Los Angeles teamsters get pay hike. p176 Dec 5
Discussed at Atlantic City convention. p21 Dec 12
AGC, NAHB call for action on wage freeze. p147 Dec 12
Prevailing wage law: workers on NY school get back pay windfall. p148 Dec 12

• Welfare, Unemployment, Social Security
No area pension plan for western teamsters. p150 Sep 12
Jobless benefits denied in Calif. p152 Sep 12
Contractor is not liable for worker's pneumonia. p114 Oct 3
Conflicting decisions on right to jobless pay after refusal of nonunion work. p151 Nov 14
Electrical union funds used for home financing in Calif. p153 Nov 14
Death from overexertion ruled to be compensable in Penna. p154 Nov 14
Work stoppage resulted in jobless benefit loss on Air Force job in NY. p157 Nov 14
Council members named for Calif. welfare fund control. p112 Nov 21
Private jobless payments win Calif approval. p112 Nov 21

LAKES
Sabine Lake causeway planned. p10 Jul 25
Sluice gates for Lake Hawea, New Zealand, permit easy movement,*. p62 Jul 25
Black Lake, Quebec, dredged to uncover asbestos deposit,**. p40 Aug 1

LEGAL DECISIONS
Bid invitation is not agreement to subcontract. p97 Jul 11
Special contract clauses, subcontractors rights. p98 Jul 11
Law prohibits oral change in contract. p101 Jul 11
No liability for defects caused by specifications. p101 Jul 11
Contractor liability not dependent on his intent. p79 Jul 25
Owner awarded damages for architect's improper supervision. p79 Jul 25
Liability of contractor for building defects. p80 Jul 25
Contract may make owner, not contractor liable. p82 Jul 25
Contract benefits cannot be denied by preventing performance. p84 Jul 25
Courts vary on liability of architects and engineers. p110 Aug 15
Contract invalidity. p61 Aug 22
Liability for safety. p61 Aug 22
One may rescind contract when breach is committed. p61 Aug 22
Contractor's negligence and owner's liability. p62 Aug 22
Contract construction invokes several rules. p62 Aug 22
Non-overhead cost items in cost plus contracts. p 66 Aug 22
Effect of releases. p68 Aug 22
Court makes contractor minimize his damages. p84 Sep 5
Payments to general: N.J. court rejects trust fund theory. p84 Sep 5
Vagueness did not defeat employment contract. p84 Sep 5
Meaning of contract. p87 Sep 5
Changes in contract: contractor allowed to recover fair value of work. p91 Sep 5
No breach of contract if performance prevented. p81 Sep 12
Court disallows a claim based on verbal promise. p81 Sep 12
A contractor may promise certain results. p82 Sep 12
Surety's claim superior to creditor's. p353 Oct 17
Defective performance and measure of damages. p353 Oct 17
Limit of indemnity. p356 Oct 17
Law does not allow owner to prevent performance. p358 Oct 17
Court bars tax lien. p56 Oct 31
Legal duty to furnish a safe place to work. p56 Oct 31
Building costs defeat architect's recovery. p56 Oct 31
Contractors liable for injuries from defects that are hidden. p105 Nov 14
Damage suit for injuries governed by contract law. p106 Nov 14
Order for extra work should be put in writing. p108 Nov 14
Contractor must pay for correction of defects. p93 Dec 5
Liability of surety: distinction between performance and material payment bonds. p93 Dec 5
Date of contract: commencement of work considered controlling. p98 Dec 5
Prompt action required in rescinding contract on grounds of fraud. p100 Dec 5
How a court determines what a contract means. p104 Dec 5
Defective performance and measure of damages. p105 Dec 5
Damages caused by floods are held not compensable. p90 Dec 12
Overhead charges denied on contract cancellation. p90 Dec 12
Liability to coordinate contracts for a project. p90 Dec 12
Written acceptance may be essential to contract. p92 Dec 12
Suit based on fraud: statute of limitations runs from discovery. p94 Dec 12
Court refuses to disturb arbitrator's decision. p94 Dec 12
No extra work recovery in absence of agreement. p95 Dec 12
A right to rescind is waived by delay. p95 Dec 12

LEGISLATION see: BUILDING CODES AND LAWS; STATE LEGISLATION; U. S. CONGRESS

LEVEES
Levee enlargement let for Sacramento River; unit prices. p215 Oct 17

LIGHTING
Fog gives way to lighting researchers. p59 Aug 8
Grand Coulee spillway waterfall floodlit. B p35 Aug 15
GE installation develops 1000 ft-c lighting level,*. NP p88 Aug 15
Fluorescent lights for NYC subway; unit prices. p250 Oct 17
"Elfaka" system used for Dow AFB runway,**. p40 Nov 14

LOADERS see: EQUIPMENT, Tractors and Loaders; HAULING

LUMBER
Threaded nails, spikes show greater strength for driving. p73 Jul 11
Wood lamellar dome roofs reservoir, Beaverton, Ore.,* p49 Jul 25
Bldg code: lumber stresses cut. p23 Sep 26
Reduced lumber stresses. RC p9 Nov 7

M

MAPPING see: SURVEYING AND MAPPING

McGRAW-HILL EDITORIALS
Basic research: more practical than you think. p128 Dec 5

MINING
Construction of shipment facilities for Peru from deposits to start. p70 Nov 14

MODELS see: DESIGN

MORTGAGES see: CONSTRUCTION, Financing; HOUSING

N

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS see: ENGINEERING, Societies

NAVIGATION see: RIVERS; PORTS AND HARBORS

NAVY
Navy contracts to convert Calif. island into jet airfield. p33 Jul 18
Rear Admiral Pierce becomes assistant director Coast and Geodetic Survey,*. p75 Sep 26
Capt. Peltier succeeds Adm. Meade as Bureau of Yards and Docks Chief,*. p28 Nov 14

NUCLEAR PHYSICS see: ATOMIC ENERGY

O

OFFICES see: BUILDINGS, Offices

OIL see also: EQUIPMENT, Drills
Tidewater's Del plant built fast,**. p134 Jul 25
Oilwell experience utilized for obtaining core samples in deep water,**, diag. p60 Sep 12
New designs in offshore drilling rigs,**. p54 and p38 Oct 3 Oct 24
Standard Oil to build refinery in Hawaii. p70 Nov 7

PAINT
Calif hwy concrete traffic separators to undergo painting test. p308 ... Oct 17

PANELS see: FLOORS; WALLS

PARKING see also: BUILDINGS, Garages
Yonkers raceway: two-story stables gain parking area,* p46 ... Aug 22
Providence parking deck to be built. p26 ... Sep 5

PARKS
Michigan plans big improvements. p147 ... Sep 19
N.J. plans $14m park, meadows reclaimed through lowering water level. p26 ... Sep 26
N.J. Overpeck Park project: importance of technical library research...RC p9 ... Oct 25

PASNY (Power Authority of the State of New York) see: POWER

PAVING see also: ASPHALT; CONCRETE; EQUIPMENT; HIGHWAYS
Asphalt for Air Force runways proposed by Congress. p26 ... Jul 11
Richmond-Petersburg pike paved with asphaltic concrete. RC p8 ... Aug 1
Scott Field, Ill., and Birmingham, Ala, runway unit prices. p81 ... Aug 8
Pontiac, Mich., unit prices. p101 ... Sep 12
Connecticut Turnpike,** p56 ... Sep 19
Runways unit prices. p243 ... Oct 17
Texas test tract will torture tires. p348 ... Oct 17
Ohio asphaltic concrete resurfacing unit prices. p126 ... Nov 7
Dow AFB runway: good use of poor materials,** p40 ... Nov 14
Steel road forms with slide locks are fast, interchangeable,* NP p78 ... Nov 14
Paver-finisher coats reservoir slopes as fast as base,* p77 ... Nov 21
Turntable is key to fast slope asphalting on Montgomery Dam, diag,* p36 ... Dec 5
Michigan concrete pavement unit prices. p124 ... Dec 5
Resinous cement coating helps skid-proof roads. NP p82 ... Dec 12

PENSTOCKS see: DAMS; POWER PLANTS AND UNITS

PHOTOGRAPHY, PHOTOGRAMMETRY
MIT's new hway design method, graph. p97 ... Sep 5
Cut drafting costs with plant photos,* p48 ... Sep 12
Boston conference of hwy engineers: computers, photogrammetry techniques,*. p21 ... Sep 26
Diazo rotary printer reproducer made in two capacities,*. NP p63 ... Oct 3
Photo reading technique aid fight against Canadian bogland. p50 ... Dec 26

PILES AND PILEDRIVING
Girders roll onto piers from pile bents, Simpson Lane Bridge, Calif.* p44 ... Jul 18
Judgment against pile driver on San Francisco job. B p34 ... Aug 15
Wood creosoted piles perfect after 68 yrs in water,* RC p16 ... Sep 5
What happens when hammer hits pile, graphs. p46 ... Sep 5
Prestressed piles carry prestressed bridge, Corpus Christi,** p51 ... Sep 12
Computers aid pile driving. e p120 ... Sep 26
New designs in offshore drilling rigs & platforms,** p54 ... Oct 3
Protection for arctic piling. CW p19 ... Nov 7
Piles and columns jobs on Erie Thruway, NYC,* map. p53 ... Nov 7
Computers in pile driving. RCs p6 ... Dec 19

PIPES AND PIPELINES
New concrete drain tile specs. p25 ... Jul 18
New natural gas pipelines, Calif., Fla., Can. p28 ... Jul 25
Sludge line pipe, Hyperion plant, Los Angeles, laid 7 miles in 7 days,** p33 ... Jul 25
New PG&E pipeline to run from Canada to California. p24 ... Aug 1
Clay pipe mnfctrs build research lab. p62 ... Aug 8
Middle East water pipelines, map. p55 ... Aug 22
Fast permanent joint for plastic conduit pipe. NP p78 ... Aug 22
Argentina to negotiate oil and gas pipeline construction bid. p76 ... Sep 12
Quick coupling system uses grooved pipe ends. NP p73 ... Sep 19
*Missouri River pipeline suspension termed "best of the show" in beautiful bridges contest. p25 ... Sep 26
Holes ease floor slab drilling for pipe conduits,* p65 ... Sep 26
Largest ring coupling for pipe shipped to Wyoming powerhouse,* p25 ... Oct 10
Water pipes unit prices. p228 ... Oct 17
Water in plastic pipe will supply Toronto and cool subsurface cables. p57 ... Oct 24
System to bring water 120 mi to Karachi, Pakistan,* p66 ... Nov 14
Brine pipeline crosses Detroit River,** p58 ... Dec 5
Submarine crossing, Skagit River, Wash, unit prices. p124 ... Dec 5
Biggest coupling at Glendo Dam or Garrison Dam RC p13 ... Dec 12
Plastic coated steel pipe,* NP p46 ... Dec 26

PLASTICS
Hyperbolic paraboloid roof, Fort Worth, cast at site,* p63 ... Jul 11
BRI to study plastic roof construction. p52 ... Jul 25
Translucent plastic faces curtain wall panels,* NP p57 ... Jul 25
Fast permanent joint for plastic conduit pipe. NP p78 ... Aug 22
Bldg code to cover plastics. p23 ... Sep 26
Use of plastics in roofs studied. p26 ... Oct 10

PLYWOOD see: LUMBER

PORT OF NEW YORK AUTHORITY
$23m to be spent on port Newark facelifting,** p38 ... Nov 28

PORTS AND HARBORS
- American
  - Alaska
    - New Northwest passage, Bellot Strait, for DEW line supply ships. p78 ... Sep 12
  - California
    - *San Fran Bay model used to study flows, salinity, navigation. p71 ... Jul 25
    - Bill signed approving bond issue sale for port development. p128 ... Jul 25
  - Florida
    - Steel bulkhead unit prices. p88 ... Nov 21
  - Hawaii
    - Dredging starts for new harbor at Kawaihe. p56 ... Oct 24
  - Illinois
    - Chicago builds new terminal on Lake Michigan, plan. p27 ... Sep 19
  - Louisiana
    - Bids are close on wharf for port of New Orleans; unit prices. p213 ... Oct 17
  - Maryland
    - Bladensburg marina adopts timber bulkhead, diag; unit prices. p216 ... Oct 17
    - Md. State Port Authority plans expansion of Baltimore harbor. p146 ... Nov14
  - Michigan
    - Port improvements slated for Detroit waterfront. p78 ... Aug 1
    - Detroit port commission approves $13m plan. p30 ... Sep 19
    - Size of proposed Seaway project for Detroit slashed in half. p100 ... Sep 26
  - New Jersey
    - Facelifting port Newark,** p38 ... Nov 28
  - New York
    - E. A. Verpillot, NYC port engineer, retires. p53 ... Jul 4
    - New merger, Chaney and Harris, to specialize in marina design. p112 ... Jul 25
    - Three contracts awards for Brooklyn improvements. p106 ... Aug 22
    - Wood piles in East River perfect after 68 yrs,* RC p16 ... Sep 5
    - *Square pier for New York. p30 ... Dec 5
    - Two piers in Brooklyn planned. CW p17 ... Dec 26
  - Pennsylvania
    - Pittsburgh-Lake Erie canal planned to benefit by Seaway. p146 ... Nov 14
  - Rhode Island
    - Corps approves construction of tanker pier in Jamestown. p28 ... Sep 5
  - South Carolina
    - State port improvement bonds approved. p176 ... Aug 15
  - Virginia
    - Project planned to widen Norfolk ship channel. p146 ... Nov 14
  - Wisconsin
    - Milwaukee pier; unit prices. p100 ... Sep 5
- Foreign
  - Africa
    - World Bank loans $4.8m for Tanganyika port work. p52 ... Aug 1
  - Australia
    - Radioactive tracers to determine sand movement effects on harbors. CW p17 ... Jul 25
  - Canada
    - Niagara Falls control project ends; cofferdam removed,* p24 ... Jul 25
  - Holland
    - Ports eye needs of new super tanker. p44 ... Nov 28
  - Peru
    - Iron ore shipment facilities started; includes new pier at San Juan Bay. p70 ... Nov 14
  - Venezuela
    - New drydock built near Puerto Cabello,* p56 ... Oct 24

POWER see also: ATOMIC ENERGY; DAMS; RIVERS
- American

Echo from Hells Canyon, e p100 ... Jul 4
Tunnel intake to give George plant, Wash. more head,* p24 ... Jul 25
Bridge Canyon Dam: Ariz., Los Angeles controversy over site. p27 ... Jul 25
Fla. Power Corp power poles: concrete replaces wood,* p41 ... Jul 25
A-power: public or private?; mounting construction market,* table, graphs. p21 ... Aug 1
Congress approves Niagara project, map, diag; construction schedule. p27 ... Aug 22
License request set for Wells hydro on Columbia R. p33 ... Aug 22
Niagara hydro: dream project comes true. e p128 ... Aug 22
Public vs private power. RC p8 ... Aug 29
Kings River power is $80m project. p44 ... Aug 29
Snag at Niagara power plans. CW p19 ... Sep 5
Last Columbia damsite will produce 450,000 kw. p27 ... Sep 5
Moses' talk to Niagara Falls citizens. CW p19 ... Sep 12
Power from Dalles first generator is on line. B p32 ... Sep 12
License expected for Upper American river hydro. B. p32 ... Sep 12
Puget Sound utilities see $1 billion expansion. p144 ... Sep 12
Makelumne River hydro project planned. p144 ... Sep 12
Congressman replies to Ben Moreell's public vs private analysis. RC p8 ... Sep 19
Hetch Hetchy tunnel bids called, Yosemite National Park, Calif. p33 ... Sep 19
Coosa River project to cost $121m. p148 ... Sep 19
Conditional license for Niagara granted. p26 ... Sep 26
Alabama Power Co plans hydro project on Black Warrior River. p24 ... Oct 3
Power vs navigation battle in Missouri basin. p73 ... Oct 17
Irrigation and hydro power construction cost indexes, table, graphs. p97 ... Oct 17
End of delays at Niagara. e p46 ... Oct 24
Debate on Colorado power,* map. p21 ... Oct 31
Robert Moses in defense of construction men at Niagara project. e p160 ... Nov 7
Contract terminated on 40% completed Cowlitz R. project, Wash. p148 ... Nov 14
Niagara still unsettled. CW p19 ... Dec 5
Niagara prospects brighten. CW p17 ... Dec 26

- Foreign

Congo River hydro project planned as world's largest. p62 ... Jul 18
Japanese hydro equipment may oust British from Indian market. CW p17 ... Aug 22
Personnel changes in Quebec Hydro,* p77 ... Sep 5
Australia plans two thermal power stations. p78 ... Sep 12
Switch from hydro to thermal plant planned by British Columbia Co., Canada. CW p17 ... Oct 3
Hydro paces Turkey's construction boom,** map, diag. p34 ... Oct 10
World bids on Cuba hydro job, table. p330 ... Oct 17
British Columbia power schemes provide grist for speculation, map. p27 ... Nov 7
Chute-des-Passes, Can, project finishes first yr, maps, diags,** p52 ... Nov 14
Benmore New Zealand's largest hydro, diag,* p55 ... Nov 21
Details on Laguneta project, Columbia. RC p41 ... Nov 28
Huge Russian hydro projects,** p26 ... Dec 12
Iran's power projects,* map. p34 ... Dec 12
Hydro Quebec finishes First, pushes Second Beesimic River job,** maps p28 ... Dec 19
Russia claims world's biggest power line. p56 ... Dec 19

POWER PLANTS AND UNITS see also: ATOMIC ENERGY
Bridge River plant, Canada, under construction. p48 ... Jul 4
Kings River power plant, Calif. under construction. p25 ... Jul 18
PASNY saves time; takes bids on 13 turbines. p23 ... Jul 25
New unit to be started on Willow Island, W.Va. B p30 ... Jul 25
Little Goose project, Snake R. planned by Northwest power group. p25 ... Aug 1
Rocky Reach power allocated to PUD, Alcoa. p26 ... Aug 1
Penstocks sized quickly, table, graph. p78 ... Aug 15
Japanese turbines may oust British from Indian market. CW p17 ... Aug 22
Ontario Hydro to build largest steam plants. p30 ... Sep 19
Haas underground powerhouse on Kings River,** diags. p52 ... Sep 19
Glendo powerhouse, Wyo, has largest ring coupling for pipe on turbine inlet.* p25 ... Oct 10
Big Thompson plant tops out Colorado project; unit prices. p206 ... Oct 17
Spotlight on underground power plants at ASCE meeting,* p22 Oct 24 and RC p9 ... Dec 19
Chute-des-Passes, Can, underground powerhouse, maps, diags,** p52 ... Nov 14
*Turbine scroll cases shipped to Brownlee. p30 ... Dec 5
Noxon Rapids to have T-1 turbine scroll cases. p62 ... Dec 5
Lightweight economical diesel,* NP p88 ... Dec 5

PRICES see: CONSTRUCTION, Materials and Labor Prices, Unit Prices

PUBLIC WORKS see also: CONSTRUCTION; HOUSING
States battle legislation over who pays for utilities relocation. p24 ... Jul 4
House trims appropriations. p23 ... Jul 25
Columbus, Ohio Planning Commission studies five-year $185 mil program. p78 ... Aug 1
Appropriations tables: civil works spared cuts, military hit. p24 ... Aug 29
Capital markets to favor public works, graphs. p142 ... Sep 12
NY State Dep. of Public Works establishes Bureau of Budgetary and Administrative Planning. p146 ... Sep 12
APWA convention tolds get the public behind public works,* p23 ... Oct 3
Nassau county becomes a city,* map. p30 ... Oct 3
Will suffer as Sputnik prompts defense spending. p23 ... Nov 21
Public works ranks second after defense, federal officials say. p84 ... Nov 28

PUMPS AND PUMPING
Stroke diaphram pump adjustable in operation NP p87 ... Jul 11
New series of suction pumps for in-plant service p70 ... Jul 18

Air pump line designed for low lift applications. NP p57 Jul 25
Heat pump uses below freezing air. B p30 Aug 8
Raft supported pumps on California rockfill dam construction,*. p38 Aug 29
Heavy duty slurry pump features flexible lines. NP p64 Sep 5
Sumo submersible pump line extended by 50-hp units. NP p73 Sep 19
Submersible pump handles 20% solids,*. NP p54 Oct 31
Submersible pump has varied controls, increased capacity. NP p75 Nov 14
Steam jet siphon removes water and sludge, diag. p77 Nov 21

R

RADAR, RADIO

Newest Texas tower, near Sandy Hook, tilts into place as planned,**. p26 Jul 18
Huge radio telescope built in England,*. p73 Aug 15
Radio telephone system has 2-way dialling. NP p74 Nov 14

RADIATION, see; ATOMIC ENERGY

RAILROADS see also: TRANSPORTATION

Canadians honor pioneer railroad engineer. p53 Jul 4
Cuyahoga River railroad bridge, Ohio, gets new lift span,**. p50 Jul 25
Hijaz railway, Syria; data to be checked by Japanese consultants. p52 Aug 1
Blast gives rockfill for Southern Pacific across Great Salt Lake,**. p28 Aug 15
B&O spur single track cut at Mannington, W. Va. p27 Sep 5
Syrian railway project gets January bid call. p68 Nov 7
Big relocation job for Noxon Rapids dam,*. p66 Dec 5

RAIN

Rainmakers' score: 14% increase through cloud-seeding. CW p17 Jul 4

RESEARCH AND TESTS see also: BUILDINGS, Laboratories

14% more rain through cloud-seeding reports weather committee. CW p17 Jul 4
Congress studies asphalt vs. portland cement for Air Force runways. p26 Jul 11
New automobiles make road marking difficult. p73 Jul 11
Threaded nails, spikes show strength in lab tests. p73 Jul 11
Column Research Council to test stresses, loads. p74 Jul 11
Canada's use of open lagoons for sewage disposal. p95 Jul 18
RILEM conference studies cracking in reinforced concrete. p71 Jul 25
*San Fran Bay model used to study navigation, salinity problems. p71 Jul 25
Air system for home heats and cools efficiently. p73 Jul 25
Engineers and Education conference set for Fall. p74 Jul 25
Fog gives way to lighting researchers. p59 Aug 8
Clay pipe mnfctrs to build lab. p62 Aug 8
Stabilizing heavy clay soils,**, diag. p101 Aug 15
River flow data obtained with radioactive tracers,*. p106 Aug 15
Corps of Engineers searches for better, cheaper concrete, tables. p34 Aug 22
Bldg Research Institute head elected. p51 Aug 29
New firm for field and lab materials testing equipment. p51 Aug 29
Top riding monorail tested in Germany,*. p57 Aug 29
MIT's new hway design method, graph. p97 Sep 5
Floating rig takes core samples in deep swift water,**, diag. p60 Sep 12
St. Louis students construct and test paraboloidal roof,*. p94 Sep 12
Hog braced arch proves stable in test,*. p97 Sep 12
Solar heated home nears completion,*. p97 Sep 12
Two conferences to report on building research gains. p98 Sep 12
BRI studies use of plastics in roofs. p26 Oct 10
Test track to torture tires in Texas. p348 Oct 17
Hand operated compactor prepares soil samples. p348 Oct 17
Conversion of salt-water by A-power heat studied. p348 Oct 17
Importance of technical library research. RC p9 Oct 24
Field tests for neoprene in asphalt,*. p61 Oct 24
Brick packaging machine. p61 Oct 24
Fractional sublimation method developed to break down smog. p61 Oct 24
Caterpillar's new testing lab,*. p62 Oct 24
How to blast concrete,**, table. p104 Nov 7
Recommended standards for concrete floor finishes. p105 Nov 7
Mobile lab en route to Baghdad,*. p56 Nov 21
Seminar on stream self purification,*. p60 Nov 21
Florida builders to start research. CW p17 Nov 28
Calif utilities to sponsor water-desalting research. p35 Nov 28
Pilot plants ready to go in Cincinnati sanitary engineering center,*. p47 Nov 28
Research, Russia and us. e p100 Nov 28

RESERVOIRS see also: BUILDINGS, Storage Tanks; WATER SUPPLY

Beaverton, Ore. reservoir: roof is wood lamellar dome,*. p49 Jul 25; RC p16 Aug 15
Terrace Reservoir Dam failure, Colo,*. p25 Aug 1
Annual drawdown starts on TVA reservoirs. p58 Oct 3
Correction of June 20 article—not so many reservoirs in Calif. p12 Nov 21
Calif reservoir slopes coated as fast as base,*. p77 Nov 21

RIVERS see also; DAMS; WATER SUPPLY

River flow data obtained with radioactive tracers. p106 Aug 15
- Bersimis
  - Two big projects to harness river,**, maps. p28 Dec 19
- Colorado
  - Bridge Canyon Dam controversy over site. p27 Jul 25
  - State stir up Colorado water fight,*, map. p21 Oct 31
- Columbia
  - Electronic computer will make complex analysis possible. p78 Jul 18
  - Herbert C. Clare, new inter-agency committee chairman. p83 Jul 18
  - Interstate Compact Commission may become "action agency". p24 Aug 1
  - License request set for Wells hydro. p33 Aug 22
  - River report. CW p17 Oct 10
  - Basin development includes Canadian jobs, map, table. p72 Oct 17
- Congo
  - Inga Falls may be site of world's largest hydro project. p62 Jul 18
- Kings
  - Pacific Gas & Electric to begin powerhouse construction. p25 Jul 18
  - $80m will bring capacity on river to 296,000 kw. p44 Aug 29
  - Haas underground powerhouse projects's unusual feature,**, diags. p50 Sep 19
- Mississippi
  - Gen. Carter becomes president of River Commission. p67 Sep 12
- Missouri
  - Water storage at all-time high. p29 Jul 11
  - Power vs navigation fight. p73 Oct 17
- Nile
  - Ethiopia to call bids for Blue Nile Basin survey. p62 Jul 18
- Ohio
  - Chloride control system proposed by ORSANCO, map, table. p30 Jul 18
  - Clean stream advance: ORSANCO's chloride control plans. e p152 Jul 25
  - ORSANCO names Blucher A. Poole chairman,*. p54 Aug 1
  - Ohio Valley Ass. urges increase spending on water resources improvements. p27 Oct 24
- Potomac
  - No bridge, no tunnel, no legislation. CW p19 Aug 8
- Sacramento
  - Levee enlargement unit prices. p215 Oct 17
- Saint Lawrence
  - Seaway excavation costs. 2RCs p8 Jul 11
  - Floating ranges guide dredges in S. Cornwall Channel. p78 Jul 18
  - Grasse River Lock project: Labor helps build safety record,*. p80 Aug 1
  - Air moves cement at Cornwall Canal,*. p48 Aug 8
  - Bridge raising job, Montreal, is one of Seaway's most complex,*, diag, map. p52 Aug 15
  - Another Montreal's bridge raised without stopping city traffic,*, diag, map. p32 Aug 29
  - Excavation jobs were always tough. RC p10 Sep 5
  - High or low tolls? CW p19 Sep 19
  - Chicago bids for Seaway's business, builds Lake Michigan terminal, plan. p27 Sep 19
  - Who is to operate the Seaway? e p128 Oct 3
  - New connection to Seaway: Lake Erie-Ohio River link planned. CW p19 Nov 7
  - New York St. Lawrence route may be deepened, map. p33 Dec 12
  - Race won in 1957: power and navigation construction satisfactory,**. p42 Dec 26
- Sioux
  - Flood control spillway unit prices. p222 Oct 17
- Snake
  - Northwest power group studies site for Little Goose project. p25 Aug 1
  - Dambuilding to stop? CW p19 Dec 5

ROOFS

Concrete shell to roof Denver dept. store,*. p25 Jul 11
Orlando school roof collapse caused by poor design,*, diags. p28 Jul 11
Reinforced plastic roof, Fort Worth, cast at site,*. p63 Jul 11
Wood lamellar dome, Beaverton, Ore. reservoir,*. p49 Jul 25; RC p16 Aug 15
BRI to study plastic roof construction. p52 Jul 25
Klabin paper mill roof, Brazil,*. p61 Jul 25 and RC p11 Oct 3
*Prestressed shells for factory roof in Holland. p23 Aug 8
Precast concrete bubbles make New Canaan supermarket roof,**, diag. p33 Aug 8
Aluminum dome for Virginia Beach auditorium. B p34 Aug 15
Swedish roof bolting system,*. NP p86 Aug 15
Concrete span supported at only 3 pts roofs exhibition hall near Paris,*. p56 Aug 22
Steel sections arch 150 ft at Chicago plant,*. p26 Sep 5
Plywood sheets make frameless dome,*. NP p63 Sep 5
St. Louis students design, build and test hyperbolic paraboloidal roof,*. p94 Sep 12
Stability of long span roof arch tested,*. p97 Sep 12
Thin shell roof for Thin shell designers' HQ, Denver,*. p144 Sep 12
Novel ideas at Brussels World Fair,**. p36 Sep 26
Study of use of plastics in roofs. p26 Oct 10
Folded plate cantilevers roof ACI HQ in Detroit,**, diag. p44 Oct 24
Aluminum dome. B p33 Nov 7
Precast hipped-plate panel roof for Calif. circular school,*. p64 Nov 7
Vaulted roof planned for air terminal,*. p28 Nov 14
Ill. water tank roof collapses. CW p15 Nov 21
Open grid wood dome over Pine Hills recreation center, Memphis,*. p25 Nov 21
Wood plated small garage roof,*. p25 Nov 21
Aluminum dome erected on balloon "falsework" for Kansas factory,**. p24 Nov 28
Alpena, Mich supermarket roof: tied arches made of concrete block,**. p26 Dec 5
Conoid with corrugations makes unusual roof for Penna furniture workshop,**, stress graph. p46 Dec 5
Progress in cable suspended and air supported roofs. p23 Dec 19

S

SAFETY

Calif agencies take precautions against formboard accidents. CW p17 Jul 4
Du Pont Construction scores perfect safety record. p145 Jul 11
Labor helps build safety record, St. Lawrence Seaway's Grasse River project,*. p80 Aug 1
Unsafe Rio de Janeiro buildings. p51 Aug 8
Fog safety limits on high speed roads. p59 Aug 8
Boom spot indicator provides danger zone warning,*. NP p86 Aug 15
Vibration isolators steady textile mill walls,*, diag. p38 Aug 22
Corps gives awards to two Western firms. p28 Sep 5
N.J. Turnpike to use foghorns for safety. p52 Oct 10
Work injury rates table. p170 Oct 17
Chicago meeting on hwy and construction jobs safety. p28 Oct 31
Automotive Safety Foundation anniversary marks success. CW p21 Nov 14
Effective safety program depends on supervision. p153 Nov 14
Steel guard rail for hwys and bridges,*. NP p85 Dec 5

SAWS see: EQUIPMENT, Tools

SCHOOLS see: BUILDINGS, Schools

SEWAGE see also: WATER POLLUTION

Air pump line for low lift application, sewage plants. NP p57 Jul 25
The pollution control act—a year of good progress,*. p25 and e p196 Aug 15
FSIWA convention: glowing forecast for sewage construction. p74 Oct 17
Do-it-yourself sewer cost graphs. p311 Oct 17
New guide to sewage plant costs, graphs. p316 Oct 17
Square-shaped manhole lid,*. NP p82 Dec 12
Give sewerage aid a chance. e p88 Dec 26
- American
  - Arkansas
    - Septic tank ban. B p30 Jul 25
  - California
    - Hyperion sludge line pipe laid 7 miles in 7 days,**. p33 Jul 25
    - Los Angeles storm drain unit prices. p239 Oct 17
  - Connecticut
    - Subsoil under sewer makes pumping necessary; unit prices. p58 Jul 4
  - Florida
    - Ft. Lauderdale sewers, air lifts are complex job, diag; unit prices. p230 Oct 17
  - Indiana
    - Gas City finds unused storm sewer. CW p19 Sep 19
  - Kentucky
    - Operation crux of Bromley odor problem. p26 Jul 4
    - State laterals law upheld. p28 Sep 12
    - Summit Hills Heights demonstrates community effort. p26 Sep 26
  - Maine
    - Sewer bid includes jacking; unit prices. p78 Sep 26
  - Massachusetts
    - Detonator magazine blows up at Boston sewage tunnel job. p30 Aug 15
  - New Hampshire
    - Sanitary sewers for Jaffrey; unit prices. p58 Jul 4
  - New Jersey
    - Wastes pact for the future. CW p17 Oct 3
    - Cyanamid Co's unusual waste treatment,*. p25 and e p128 Oct 3
  - New York
    - Newton pollution control project starts, largest in NYC. p30 Aug 15
    - Sanitary sewers near Troy; Coney Island sewage plant; unit prices. p233 Oct 17

Ohio
First sewage lagoon in state, Deshler. p25 Jul 18
Cincinnati research plants ready to go **. p47 Nov 28
Inadequate sewage plants discussed. p24 Dec 12
Oregon
Sewers. Lift stations, treatment plant unit prices. p234 Oct 17
Pennsylvania
Improvements in Philadelphia,**, map. p37 Sep 19
Tennessee
Good construction pace at Nashville disposal system. B p34 Aug 15
Washington
Seattle votes money for sewage works. B p32 Sep 12
Broken sewer creates crater in Seattle. CW p15 Nov 21
Big break in Seattle sewer bypassed. p24 Dec 12
Seattle's sewer break posed challenge,**. p26 Dec 19
Concrete pipe sewers for Seattle; unit prices. p58 Dec 26

• Foreign
Use of open lagoons for sewage disposal increases in Canada. p95 Jul 18
Forms hung on gantry speed British tank concreting,**, diag. p68 Aug 15
Argentina to improve sanitation. p74 Sep 5
Ponds oxidize wastes in New Zealand sewerage system,*. p76 Dec 5

SKYSCRAPERS see: BUILDINGS

SLUM CLEARANCE see: CITIES; HOUSING

SOIL MECHANICS, EROSION

Cheap method of stabilizing difficult soil,**, diag. p101 Aug 15
Asphalt groins successfully protect Maryland beach,** p42 Aug 22
Submarine breakwaters to protect Brazil beaches.* p58 Aug 22
Floating rig takes core samples in deep swift water,**,diag. p60 Sep 12
Caissons nail down slipping California shore. p26 Sep 19
Soil experts pack London international conference. p87 Sep 19
Soil core sampler reported effective. p90 Sep 19
Stabilizing soil for Long Island Expressway,*, map. p50 Sep 26
Flexible precast wall solves erosion problem at Indian Lake, Ohio,* p62 Sep 26
Soil testing meeting. B p76 Oct 17
Watershed protection structures unit prices. p239 Oct 17
Hand operated compactor prepares soil samples. p348 Oct 17
NY Fair foundations were good. RC p11 Oct 31
Consolidation and stabilization at port Newark construction,*. p38 Nov 28
Lime omitted as soil stabilizer. RC p8 Dec 12
Trends in beach protection.* p28 Dec 12
Underpinning at NYC subway job,**,diags. p38 Dec 19
Photo reading technique determines type of bentonite in Canada. p50 Dec 26

STADIUMS, see: BUILDINGS, Arenas, Stadiums

STANDARDS, SPECIFICATIONS see also: BUILDING CODES AND LAWS; DESIGN

Column Research Council to prepare data on loads, stresses. p74 Jul 11
Cost engineers to set estimating standards. p137 Jul 11
Concrete Pipe Assoc. proposes new concrete drain tile specs. p25 Jul 18
Metric equivalents. e p128 Aug 8
Utah State Bldg Board investigates specs. CW p19 Sep 5
Metric system should not be ignored. RC p14 Sep 12
Save time by using design standards,* p41 Sep 12
Modular standards group organized. p30 Sep 19
Plastics included in bldg code; lumber standards changed. p23 Sep 26

STATE LEGISLATION see also: LABOR

Pa. legislature rejects Leader's bill to eliminate Pike Commission. p77 Jul 4
Missouri legislature passes bill creating water pollution board. p27 Jul 11
Del. hway, school construction bills delayed. p140 Jul 11
Ill. legislature approves record-breaking hway program, school aid. p142 Jul 11
Calif. legislature's refusal to aid water plans poses problems. e p160 Jul 11
N. Car. water bill eliminates pollution control duplication. p29 Jul 18
Pa. vetoes bill barring non-state designers, govt. projects. p25 Aug 1
Del. passes $74.2 mil construction bill; schls, hways, state bldgs. p26 Aug 1
Legislatures wind up right-of-way deliberations: who pays? p25 Sep 5
Delaware removes interest ceiling on new bond issues. p140 Sep 5
Maine votes insurance plan for industrial mortgages. p102 Oct 3
Table: What election day did to the bond issues—Ark, Cal, Col, Con, Ohio, Ore, Penna, Tex, Va, Wash, Wy. p29 Nov 14
Ala. referendum in Dec. to decide $22m bonds. p145 Nov 14
Maine acts to create bldg authority. p107 Nov 21
Delaware deficit: legislature called on financial crisis. p139 Dec 12

STEEL

Zinc spray protects steel from corrosion,*. p70 Jul 18
Steel-fabricated floating ranges for dredging St. Lawrence Seaway. p78 Jul 18
Reinforcing rings, Koolau Tunnel, Hawaii, completed,*. p24 Jul 25
Lift span, erection towers, approaches for Cuyahoga River railroad bridge,**. p50 Jul 25
Steel frames for Klabin paper mill roof, Brazil,*. p61 Jul 25
*McLouth Steel Corp. to expand Trenton plant. p128 Jul 25
Steel figures corrected. RC p8 Aug 1
Light-gage steel used, experimental grain storage structures,*. p33 Aug 1
Orinoco steel mill, Venezuela gets started,*. p51 Aug 1
New light on brittle failures. e p128 Aug 8
Prices under fire by Senate committee. p176 Aug 15
Wins over prestressed concrete for medium span bridges. p26 Aug 22
Prefab bridge railing assembled by bolts,*. NP p47 Aug 29
Shipments break record, table. p78 Aug 29
Inland Steel Co to double structural shape capacity. p146 Sep 12
Nine bridges receive awards for beauty from AISC,**. p24 Sep 26
Makes novel pavilion framings for Brussels World Fair,**. p36 Sep 26
Bethlehem and Youngstown merger proposed. p99 Sep 26
Shrapnel finder spots steel embedded in reinforced concrete,*. p80 Nov 7
Prestressed bars wind-brace Montreal hotel, diags,**. p33 Nov 14
Steel curtain wall design,**. p40 Nov 21
Steel firm plans tallest bldg in West Germany. p44 Nov 28
*T-1 turbine scroll cases shipped to Brownlee. p30 Dec 5
T-1 turbine scroll cases used for Noxon Rapids. Dec 5
Guard rail for hwys and bridges,*. NP p85 Dec 5

STRESSES see: DESIGN

SUBWAYS see: TRANSPORTATION

SURVEYING AND MAPPING

G. D. Whitmore, authority on surveying, heads topo division,*. p107 Nov 7

• Drawing
Architect-engineer scales available on flat plates,*. NP p87 Jul 11
Coin-size bean compass scribes up to 12-ft diameter circles,*. NP p45 Aug 1
GABS vertical file holds 2,000 drawings,*. NP p45 Aug 1
Templet kit for many steel detailing profiles,*. NP p69 Aug 8
Electrical diagrams for drafting standards. B p34 Aug 15
Portable illuminated tracing unit. NP p47 Aug 29
Long-print holder for viewing blueprints. NP p47 Aug 29
New line of drawing instruments. NP p47 Aug 29
Tracing paper allows drawing on both sides,*. NP p64 Sep 5
How to improve drafting efficiency, diags,*. p38 and e p168 Sep 12
Time saving limits in drafting. RC p10 Oct 10
Superimposing drawings. RC p12 Oct 10
Drafting standards. B p76 Oct 17
Clamps support plans on table during use,*. NP p44 Nov 7

• Instruments
Triqulator for solving triangles,*. NP p57 Jul 25
Self-leveling attachment keeps line of sight true,*. NP p58 Jul 25
Planimeter sets to zero at touch of a button. NP p47 Aug 29
Light wood target rod locks in any position. NP p64 Sep 5
Steel measuring tape has eighths and tenths. NP p73 Sep 19
Wide frame tripods have bronze heads. NP p57 Sep 26
Slide rule designed for water calculations. NP p53 Oct 31
Japanese transit now available in US. NP p85 Dec 9
Survey monument can raise with roads. NP p81 Dec 12
Portable drafting tool fits in pocket,*. NP p49 Dec 19
Metal grade stakes save time and money,*. NP p47 Dec 26

TAXATION

Ohio supreme court backs axle-mile tax. p77 Jul 4
Pa. legislature cuts gas tax by one cent. p77 Jul 4
Interstate hway program trust fund gets boosts from extra taxes, map, table. p26 Jul 25
Pa. contractors owe $5 m on state projects. p78 Aug 1
Mich. state taxes too high, steel plant prospect lost. p110 Aug 22
Virginia rejects tax increase suggestion. p152 Sep 19
Move to block Nebraska gas tax fails. p182 Oct 17
Contractor defeated in New Mexico tax invalidation attempt. p383 Oct 17
Hawaii protests against tax with no hwy benefits. CW p19 Dec 5

TELEPHONE see: UTILITIES

TELEVISION see also: BUILDINGS, Towers

•CBS Television City to be doubled in size. p 140 Jul 18
TV setup for Alberta, Can telephone bldg makes speedy construction necessary,* p64 Jul 25
TV programs help Memphis road public relations. RC p9 Aug 22
TV series to tell construction story. p26 Sep 5
To control traffic in Ft. Pitt tunnel, Pa. p27 Sep 5
Engineers on TV educational series. p58 Sep 26

TENNESSEE VALLEY AUTHORITY

King size computer to be employed for hourly generation plan. p29 Sep 19
Annual drawdown starts on reservoirs. p58 Oct 3
W. W. Woodruff retires as div. of power engineering and construction director,*. p90 Nov 14

TILES see: BRICKS, TILES

TOOLS see: EQUIPMENT, Tools

TRADES

Boilermakers
Contract negotiated in seven western states. p81 Oct 10
Bricklayers
Criticize veto of Vet Housing Bill. p149 Sep 12
New three year contract in Rhode Island. p87 Oct 31
Carpenters
Hutcheson's refusal to testify may provoke union showdown. p146 Jul 11
Ordered to stop charging fees for working permits. p112 Aug 8
Cement, Lime, Gypsum Workers
Hold out in cement strike on subcontractors clause, retroactivity. p21 Jul 25
Ironworkers
Members trained in use of new materials and techniques. p150 Sep 12
Lathers
Criticize Joint Board. p150 Sep 12
Plumbers
Area-wide contract in N.Y. p146 Sep 5
Wrench in the plumbing on anti-bid shopping bill. CW p19 Dec 5
Teamsters
Investigators draw new head on James Hoffa,*. p111 Aug 8
Hoffa remains chief candidate for presidency. p145 Sep 5
No pension plan in the West. p150 Sep 12
AFL-CIO firm on clean house,*. p153 Sep 19
Union convention opens in Miami. p109 Oct 3
Hoffa elected,*. p21 Oct 10
Hoffa's election challenged,*. p184 Oct 17
New roadblocks for Mr. Hoffa,*. p80 Oct 24
Union is out of AFL-CIO, but door is open,*. p84 Oct 31

TRAFFIC see also: HIGHWAYS; PARKING; TRANSPORTATION

Interchange designed to speed New Orleans traffic,**, diag. p38 Jul 11
Traffic-breaking projects for Pittsburgh,**, diags. p64 Jul 11
TV control for Ft. Pitt Tunnel, Pa. p27 Sep 5
Traffic arteries revamped in Huntsville, Ala. B p76 Oct 17
Los Angeles traffic signals unit prices. p248 Oct 17
Traffic control ends Lincoln tunnel congestion,*. p35 Oct 24
Bogota traffic bottleneck to be solved. p52 Oct 24
Three traffic links go into business,*. p26 Nov 7
City expressways—traffic jams solution. p28 Dec 12

TRANSPORTATION see also: HAULING; HIGHWAYS; RAILROADS; TRAFFIC; TRUCKS

Commercial carriers for construction equipment marketed. NP p45 Jul 4
Subsidies for commuters. e p100 Jul 4
Phila. trolley line electricity corrodes water, gas mains. p29 Jul 18
Cars are air-conditioned at drive-in restaurant, Las Vegas,*. p30 Jul 25
German monorail gets full scale test.* p57 Aug 29
Stockholm subway built in underwater cofferdams,*, map, diags. p52 Sep 5
Cities tackle highway transportation problems. p24 Oct 10
Phoenix shopping center conveyor system. B p76 Oct 17
Rapid transit extension for Cleveland; unit prices. p231 Oct 17
New York subway bids include underpinning; unit prices. p62 Nov 28
Improvements in Iraq,*, map. p34 Dec 12
Dekalb station, Brooklyn, difficult subway relocation job,**, diags. p38 Dec 19
Detroit approves monorail plan. p76 Dec 26

TRUCKS see also: HAULING

*First mobile "weight station" for California. p28 Jul 25
Sand spreader converts dump truck into road spreader,*. NP p45 Aug 22
Special truck services big paving and earth-moving fleet, Seattle. p68 Sep 5
Spreaders speed big tire changing,*. NP p57 Sep 26

TUNNELS

Tunneling record claimed. CW p19 Sep 19
Crawler equipment for tunnel, shaft work. NP p59 Oct 24
How to figure tunneling costs. p27 Nov 14
• American
Arizona
Peter Kiewit Sons Co. claims record on vehicular tunnel. CW p19 Sep 19
California
October bids called on Hetch Hetchy water tunnels, San Fran. p33 Sep 19
Clear Creek tunnel, Trinity R. diversion; unit prices. p219 Oct 17
Railroad relocation tunnels around Oroville Dam; unit prices. p222 Oct 17
Cherry power tunnel, Hetch Hetchy system; unit prices. p10 Dec 12
Hawaii
Koolau milestone: steel reinforcing rings completed,*. p24 Jul 25
Louisiana
Four lane trench type vehicular tunnel opens under Harvey Canal,*. p28 Sep 12
Automatic tunnel unlocks New Orleans traffic maze,*, map, diag. p60 Dec 12
Maryland
Potapsco Tunnel will ease Baltimore's traffic problems,**, map. p38 Aug 8
*Potapsco tunnel entrance. p26 Nov 7
Massachusetts
Explosion at Boston sewage tunnel job. p30 Aug 15
New Mexico
Will cows use tunnel under U.S. Route 60? CW p19 Sep 19
New York
West Delaware water tunnel holed through. CW p21 Aug 15
Blast at Oswego tunnel kills 4 workers. p24 Aug 22
Oswego tunnel explosion laid to gas. p23 Aug 29
NYC's water supply tunnels costs; West Delaware tunnel unit prices. p226 Oct 17
Traffic control ends Lincoln tunnel confestion,*. p35 Oct 24
Pennsylvania
Traffic breaking Pittsburgh tunnels,**, maps. p65 Jul 11
Virginia
N-S route for Chesapeake Bay bridge-tunnel approved. p27 Aug 8
*Hampton Roads bridge-tunnel opened. p26 Nov 7
Washington
New tunnel entrance to be intake, Gorge power plant, Wash.* p24 Jul 25
• Foreign
Brazil
Bids called for Rio de Janeiro vehicular tunnel. p74 Aug 15
Canada
Kemano tunnel water flow is improving. p28 Nov 7
Chute-des-Passes hydro, maps, diags,**. p52 Nov. 14
Cuba
New auto tunnel planned in Havana. p88 Sep 19
France
Engineering work starts at Mont Blanc tunnel site. p70 Nov 14, p44 Nov 28
Great Britain
June 6 editorial on English Channel tunnel informative, interesting. RC p14 Jul 4
River gravel solidified for Dartford Tunnel lining under Thames, map, diags,* p58 Nov 14
Holland
Vehicular tunnel under North Sea Canal completed. p52 Aug 1
Italy
Engineering work starts at Mont Blanc tunnel site. p70 Nov 14, p44 Nov 28
Middle East
Iraq's drainbuilding includes tunnel jobs,**, map. p32 Dec 26
Venezuela
New tunnels to ease Caracas traffic dam. p76 Sep 12

TURBINES see: POWER PLANTS AND UNITS

U

UNIT PRICES see: CONSTRUCTION, Unit Prices

URBAN RENEWAL see: CITIES

UTILITIES

Alabama studies plans to expand utilities. • p19 Aug 8
Ohio fight on surplus utility sale. p33 Sep 19
Headache for Long Island Expressway builders,**, map. p50 Sep 26
British Columbia Telephone Co. to spend $500m in decade. p57 Oct 24
Big relocation job for Niagara dam,*. p66 Dec 5
Rhode Island extensive survey of forgotten utilities. CW p17 Dec 19

U. S. see: AIR FORCE; CONGRESS; CORPS OF ENGINEERS; NAVY etc.

V

VENTILATION see: AIR CONDITIONING, HEATING, VENTILATION
VIBRATORS see: CONCRETE, Mixing and Placing

W

WALLS

Guggenheim Museum: concrete walls to have copper exterior. CW p19 Jul 11
Ceramic-tile wall panels will enclose Natl Bank of Miami bldg, Miami,*. p25 Jul 18
Curtain wall panels faced with translucent plastic,* NP p57 Jul 25
Three-dimensional tiles give walls design variety,*. NP p45 Aug 1
Forms hung on gantry speed tank wall concreting,**, diag. p68 Aug 15
Vibration isolators steady Mass. textile mill walls,*, diag. p38 Aug 22
Curtain wall construction forum planned in Chicago. p79 Aug 29
Wall panels can be doors. p90 Sep 19
Flexible precast wall to retain shore at Indian Lake, Ohio,* p62 Sep 26
Brick walls are prefab panels,*. p28 Oct 31
Y-wall forming goes fast,*. p87 Nov 7
Steel curtain wall design,**. p40 Nov 21
New fastener speeds aluminum wall assembly,* p59 Dec 12

WATER POLLUTION see also: SEWAGE

Missouri State Pollution Board created. p27 Jul 11
North Carolina defines Conservation dept's duties. p29 Jul 18
Chloride control methods proposed for Ohio river, map, table. p30 Jul 18 and e pJ52 Jul 25
Narragansett Bay problems licked through citizen group's help. p30 Jul 25
Bond issue suggested to fight New York pollution. CW p17 Aug 1
B. A. Poole becomes ORSANCO's chairman,* p54 Aug 1
Pulp mill gets waste discharge permit. p73 Oct 17
Pollution control board. B p33 Nov 7
Seminar on stream self purification,*. p60 Nov 21
Steam jet siphons remove water and sludge, diag. p77 Nov 21

WATER SUPPLY AND RESOURCES

Missouri R. water storage at all-time high. p29 Jul 11
The Texas water story: water rights, planning, construction, map. p47 Jul 11
ASCE to study water resources. p25 Jul 18
Pa. not N.J. leads in water conservation construction. RC p8 Jul 25
Survey of falling water tables. B p30 Jul 25
Water sluice gates to regulate level, Lake Hawea, New Zealand.* p62 Jul 25
Federal water resources money voted. p31 Aug 15
Milwaukee to check waste of cooling water. p25 Aug 22
Illinois putting water problem to business. p26 and e p96 Aug 29
Argentina to improve supply. p74 Sep 5
Golden decade for Philadelphia water,*, map. p37 Sep 19
Land for San Luis water project, Calif, acquired. CW p17 Sep 26
Diamond Jubilee of New England Water Works Assn. p27 Sep 26
Giant program for North Carolina. p24 Oct 10
Ohio Valley Association urges increased spending on water resources improvements. p27 Oct 25
Kentucky water survey starts. p28 Nov 7
Lebanon plans for irrigation and power,**, map. p28 Nov 21
Where does groundwater come from. p32 Nov 28
Montana supply expansion unit prices. p58 Dec 19
*Oregon sand dunes studied as water source. p25 Dec 26
• Aqueducts
Money provided for aqueduct north of San Francisco. p104 Aug 8
New McNeil mine and mill will serve San Francisco, map. p40 Aug 15
System to bring water 120 mi to Karachi, Pakistan,* p66 Nov 14
• Dregets
Woonsocket, R. I., water shortage. p26 Sep 26
• Laws, Agencies
Calif. legislature's refusal to aid plans poses problem. e p160 Jul 11
North Carolina bill eliminates water control duplication. p29 Jul 18
Engineer changes Calif. water agency. p83 Jul 18
Columbia Basin Compact Commission may become "action agency." p24 Aug 1
Illinois laws satisfactory. p26 Aug 29
Wisconsin adds message to riparian law. p26 Aug 29
Engineers talk sense to lawyers at Mich conference. p25 Sep 12
The water law problem. e p168 Sep 19
Court decisions, called peril to Oregon water rights. p26 Oct 10
Ohio water committee ready to operate. p59 Oct 31
J. W. Wakefield to head Florida Dept. of Water Resources. p102 Nov 7
Texas puts money in state program. p22 Nov 21
Albuquerque goes to court over Rio Grande underwater basin controversy. p26 Nov 21
• Treatment
Vortex Desanding system for well water unveiled,*. NP p88 Jul 11
First commercially available chlorinator adjusts to demand and flow,*, diag. NP p69 Jul 18
*San Fran Bay model used to study salinity, fresh-water flows, navigation. p71 Jul 25
Report on NYC fluoridation hearings published. CW p19 Sep 5
Chlorinator can handle 8000 lb per 24 hrs. NP p74 Sep 19
Billerica, Mass—strikingly different treatment plant. p27 Sep 26
Conversion of salt water by A-power heat studied. p348 Oct 17
Oneonta, N. Y. waterworks innovations; chemicals, filters,**, diag. p32 Oct 31
Water desalter symposium; research shows progress. p28 Nov 14
Calif utilities sponsor desalting research. p35 Nov 28
Cincinnati research plants ready to go,** p47 Nov 28
Doctors re-approve fluoridation. CW p17 Dec 12
• Waterworks, water mains
Indiana Waterworks reservoir requires dam, unit prices. p103 Jul 11
Facilities for Cambria Range, Briceville, Tenn, unit prices. p98 Jul 18
Middle East water pipelines, map. p55 Aug 22
Jaxon, Miss., and Biloxi plan water system expansion. p78 Aug 29
Iowa Falls water system expansion; unit prices. p100 Sep 5
Rocky Mount, N. C., grows: water tank elevated,**. p36 Sep 12
Philadelphia system rebuilt,*, map. p37 Sep 19
Water for Detroit: three way tug of war. CW p17 Oct 10
Some water supply projects unit prices. p226 Oct 17
Filter rate of Chicago plant. RC p9 Oct 25
Tap water for Toronto will run in plastic pipe and cool subsurface cables. p57 Oct 24
Milwaukee ready to start $54m water plan. p79 Oct 24
Oneonta, N. Y. small waterworks features six major innovations,**, diag. p32 Oct 31
and RC p12 Dec 26
Kemano tunnel water flow is improving. p28 Nov 7
Wayne county lets contracts over protests by Detroit city. p25 Dec 5

WIND see also: ACCIDENTS; BUILDING CODES AND LAWS; DESIGN

Hurricane protection for Cameron, La. no feasible. e p160 Jul 18
Misprint in wind loading equation. RC p14 Jul 25
Wind load causes should be determined. RC p9 Aug 1

WORKERS' ACCESSORIES

Lightweight jacket for use in cold weather. NP p94 Nov 7
Winter liner for use inside safety helmets,*. NP p47 Dec 26

WORLD BANK see: INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT

AUTHORS, PERSONALITIES

(NOTE: Military personnel is entered only under: AIR FORCE; CORPS OF ENGINEERS; NAVY)

AANDAHL, FRED G.
Putting water problem to business,* p26 Aug 29
ADDISON, WALTER J.
Becomes Baltimore County traffic engineer. p99 Sep 19
ADLER, R. C.
More on anchor bolts, diag. RC p10 Sep 12
ALIN, A. L.
Rockfill dam definition. RC p11 Nov 28
ANDERSON, ARTHUR A.
On prestressed concrete beams. RC p15 Dec 5
ANDERSON, ARTHUR R.
How beam design affects prestressed concrete bridge costs; diags. p326 Oct 17
ANDERSON, JAMES
Virginia hwy commissioner retires. p98 Dec 12
ANSON, CLEMENT M.
*New president, Engineering Institute of Canada. p53 Jul 4
ARMSTRONG, E. L.
Appointed first Utah Road Commission Director. p96 Jul 18
BABCOCK, CHESTER I.
Modern bldgs are fire potentials too. RC p14 Jul 11
BABCOCK, WILLARD F.
Named first director, N. Carolina hways. p83 Jul 18
Teacher moves to top road job in North Carolina.* p58 Oct 31
BADGETT, ROGERS
Complete study, St. Lawrence Seaway excavation costs needed. RC p10 Jul 11
BALOG, LOUIS
Suspension design is best. RC p11 Aug 8
BAUMARTEN, RALPH M.
Methods of distributing horizontal shear. RC p26 Oct 17
BAXTER, SAMUEL S.
Golden decade in Philadelphia water—man behind the program,**, map. p37 Sep 19

BEATTY, SAMUEL F.
Pioneer in road equipment dies. p25 Aug 22
BELLPORT, BERNARD P.
Becomes Sacramento regional director, Bureau of Reclamation,*. p75 Sep 26
BENHAM, C. B.
Concrete replaces wood power poles,*. p41 Jul 25
BOND, HORATIO
Brussels Fair fire risks. RC p15 Dec 5
BOWMAN, WALDO
1958 World's Fair in Brussels is a structural show,**. p36 Sep 26
Hydro paces Turkey's construction boom,**, map, diags. p34 Oct 10
Lebanon construction: dams, bldgs, hwys,**, maps. p28 Nov 21
A modern Iraq is molded,**, maps. p34 Dec 12
Big dams constructed in Iraq,**, map, plan. p32 Dec 26
BOYNTON, ROBERT S.
Lime omitted as soil stabilizer? RC p8 Dec 12
BRANDON, E. S.
Building frame analyzed by computer, diag. p34 Dec 19
BRILL, CLINTON B. F.
Becomes chairman of NY Thruway Authority. p98 Dec 12
BROWN, MARTIN M.
Engineers' salary gains challenged. RC p10 Aug 22
BURPEE, C. MILES
Wood lamellar dome roof. RC p16 Aug. 15
CARR, J. ROLAND
New design in offshore drilling rigs,**. p54 Oct 3, p38 Oct 24
CASSIN, EUGENE P.
Truck crane mounted on rails erects long steel building frame,*. p52 Jul 18
CHAMBERS, F. G.
Do it yourself—comment on Aug 15 editorial. RC p8 Oct 31
CHRISTENSEN, N. A.
Civil engineering at Cornell. RC p12 Dec 26
COLE, ALBERT M.
Housing chief wins victories,*. p21 Aug 22
CONFORTI, JAMES Jr.
Becomes president of J. H. Eisele Co,*. p344 Oct 17
CONNOLLY, PETER F.
Tunnel specialist becomes 1958 Moles awardee,*. p27 Nov 7
CONSOER, ARTHUR W.
On engineering fees at Phoenix airport. RC p8 Nov 14
COOPER, M. S.
Ex-AIEE president proposes new idea for professional unity,*. p23 Jul 18
COUGHLIN, WILLIAM J.
The inside story on Soviet construction,**. p26 Dec 26
CROOK, RICHARD C.
Favors hiring summer students for engineering jobs. RC p11 Jul 4
CROW, WILLIAM L.
President of construction co. elected to Savings Bank board of trustees,*. p342 Oct 17
CURRAN, CHARLES D.
Specialist to return to Library of Congress,*. p67 Sep 12
CUTLER, R. B.
Consulting fee questioned. RC p8 Oct 31
DANES, G. A.
New Dean Yale School of Architecture. p84 Jul 18
DANIEL, CHARLES E.
A construction man with sales appeal,*. p339 Oct 17
DAW, BERNARD
More on anchor bolts. RC p11 Sep 26
DAYTON, C. L.
Reinforcing steel errors. RC p8 Aug 1
DEAN, W. E.
Precast prestressed Tampa bridge, map, cost tables. p321 Oct 17
CTC beams are too thin. RC p8 Dec 5
Correct Florida bridge costs. RC p8 Dec 12
DEGENKOLB, HENRY J.
Elected head of Structural Engineers Asso of California. p116 Dec 5
DEMERY, THOMAS R. Jr.
"Cementless" concrete. RC p8 Aug 29
DIACHISHIN, ALEX N.
New guide to sewage plant costs, graphs. p316 Oct 17
DONALDSON, FRANCIS
Receives the 1958 Moles award,*. p27 Nov 7
DOTTERER, J. B.
Fast dam building by Ebasco. RC p14 Sep 19
DUENKE, MILTON
St. Louis builder installs air system for home that heats, cools efficiently. p73 Jul 25
DUNN, CLARK A.
Nominated to NSPE presidency. CW p17 Dec 19
DYER, G. H.
New NSPE President for term ending July 1958. p54 Aug 1
EBERHARDT, ANDREW
Philippines underground power station is not first. RC p9 Dec 19
EDBROOKE, R. F.
On dam height records. RC p11 Oct 3
ELIZABETH II, QUEEN
Speech to the Washington press corps. e p100 Oct 31
ELLENSON, SOL
Becomes new APWA president,*. p23 Oct 3
ELLIS, T. R.
Correction: Richmond pike paved with asphaltic concrete. RC p8 Aug 1
FELD, JACOB
Yonkers stables gain parking area for raceway,*. p46 Aug 22
FISCHER, ALVIN
Methods of distributing horizontal shear. RC p33 Oct 17
FLANAGAN, ED
Drawbacks of an engineering career. RC p10 Sep 5
FLEMING, SIR SANFORD
Honored as pioneer railroad engineer, Can. p53 Jul 4
FOCHT, JOHN A.
Computers in pile driving. RC p6 Dec 19
FORD, ARTHUR
Becomes head of NYC water board,*. p59 Oct 31
FORD, PAUL J.
Mexico Sift slab bldg height corrected. RC p6 Dec 26
FORREST, EDWARD
Importance of technical library research, RC p9 Oct 25
FOSTER, H. ALDEN
NY Fair bldg foundations were good. RC p11 Oct 31
FOX, ARTHUR
Chute-des-Passes: Construction Drama, diags, map,**. p52 Nov 14
FRIEDMAN, GEORGE M.
Frame shear method. RC p9 Dec 19
GALEZEWSKI, STEVEN
Create prestressing code. RC p10 Sep 12
GANNETT, FARLEY
Top consulting engineer ready to retire,*. p51 Aug 29
GATES, MARVIN
Computers in pile driving. RC p6 Dec 19
GEHRINGER, C. G.
Electronic scales. RC p33 Oct 17
GERWICK, BEN C. Jr.
Moving ahead in prestressing,*. p77 Sep 5
On prestressed concrete beams. RC p13 Dec 5
GIBSON, MRS. JOHN C.
June 6th salary article questioned. RC p14 Jul 18
GILBERTSON, HOWARD O.
On prestressed concrete beams. RC p8 Dec 5
GODDARD, MAURICE K.
Pa. not N. J. leads in water conservation construction. RC p8 Jul 25
GRIETENS, MAXIMIL
Metric system should not be ignored. RC p14 Sep 12
GUERINGER, L. E.
Anchor bolt answers, diag. RC p11 Nov 21
GUNDLACH, MRS. GEORGE C.
Greetings upon retirement from an engineering career. RC p10. Sep 12
HALMOS, E. E. Jr.
What's happened to interstate hwys, chart, graph, table. p19 Nov 21
HARDING, CHARLES J.
AFL-CIO—lays the chinks in unity,*. p21 Dec 12
HARRINGTON, G. R.
Organized labor helps all. RC p11 Jul 4
HARRIS, C. C.
Engineer's career and pay. RC p10 Sep 5
HAWKES, D. A.
Engineers: are they intelligent slobs? RC p12 Oct 31
HEATLEY, J. J.
Electronic scales. RC p50 Oct 17
HECK, OSWALD D.
Suggests $500 mil bond issue to fight NY water pollution. CW p17 Aug 1
HEINZ, JUHL
Methods of distributing horizontal shear. RC p12 Oct 17
HELDENFELS, FRED W. JR.
Nomination unopposed for AGC president,*. p29 Sep 19
HENNESY, J. H. JR.
Do you know when you are running in red, tables. p302 Oct 17
HINGST, JOHN M.
Yangtze River Bridge built on concrete tubes,*, map. p46 Sep 19
Novel fish guiding device, diag. p52 Oct 10
HOFFA, JAMES R. see: TRADES—Teamsters; LABOR, AFL-CIO
HOLIFIELD, CHET
On Ben Moreell's findings on water resources and power. RC p8 Sep 19
HOVEY, WILLIAM R.
A Calif. Assoc. President misplaced. RC p14 Nov 14
HOWE, J. W.
Wind load causes should be determined. RC p9 Aug 1
HOWSON, LOUIS R.
Becomes ASCE president,*. p21, p64 Oct 24
HUIE, IRVING V. A.
Water supply engineer dies. p25 Sep 5
HYLAND, GEORGE N.
Misprint in wind loading equation, p8 Jun 13th. RC p14 Jul 25
HYLAND, W. L.
Boston had the oldest engineering society. RC p10 Sep 5
JARVIS, JOHN D.
Appointed supervising architect, Illinois. p86 Jul 18
JEFFERY, J. STANLEY
Time-saving hints in drafting. RC p10 Oct 10
JENKINS, HERBERT T.
Becomes chairman of engineering drawing dept, Univ of Michigan. p59 Oct 31
JOHNSON, JOHN W.
Red tape in contracts. RC p15 Sep 26
JOHNSON, RALPH D.
Montana hwys research engineer joins Hwys Users Conference. p342 Oct 17
JONES, WILLIAM M.
Correction of May 9 article on aircraft assembly plant. RC p22 Aug 22
JORDAN, MICHAEL
Methods of distributing horizontal shear, diag. RC p12 Oct 17
KALINSKE, A. A.
Waterworks plant innovations questioned. RC p12 Dec 26
KENNEDY, THOMAS B.
Corps of Engineers searches for better, cheaper concrete, tables. p34 Aug 22
KIRK, DON W.
Designer's credit: addition to welded bldg article of May 2. RC p16 Aug 15
KLINGER, W. A.
Civil engineering course. RC p6 Dec 26
KNOX, RICHARD G.
Cement temperature. RC p10 Oct 10
KURAS, A. E.
Hartford employees form engineering club. RC p8 Sep 19
LANGHAMMER, JOSEF
Wrong man credited for Brazilian factory roof construction. RC p11 Oct 3
LEE, DONOVAN H.
Computers in pile driving. RC p6 Dec 19
LEE, H. K.
Anchor bolt problems, comments by T. Dwyer, C. G. Daniels, D. L. Pray, H. Kloss, H. M. McCollister, T. Hynes, B. Pross, G. Clark, V. H. Smith; Glags. RCs p8 Aug 15
LEEDOM, BOYD
Comments on improper activities. p151 Nov 14
LEEMHUIS, RUDOLPH E.
Methods of distributing horizontal shear. RC p26 Oct 17
LEGARE, T. KEITH
NSPE honors its first secretary,*. p83 Jul 18; RC p10 Aug 29
LEGGET, ROBERT F.
Singapore's progressive public housing,*. p78 Jul 11
Soil experts pack London international conference. p87 Sep 19
LEGGIERO, MARC
The pollution control act—a year of satisfactory progress,*. p25 Aug 15
LEVY, MATTHYS P.
Canoid with corrugations makes unusual roof,**, stress curves. p46 Dec 5
LI, SHU-TIEN
Automatic tunnel unlocks New Orleans traffic maze,**, map. p60 Dec 12
LITTLE, TOM L.
Do it yourself is a result of high labor costs. RC p10 Sep 12
LOCHAK, BORIS
Gibbs and Hill promotes overseas operations head,*. p52 Dec 19
LYONS, J. W.
Cheap method of stabilizing a difficult soil,**, graph. p101 Aug 15
Why lime was omitted as soil stabilizer. RC p8 Dec 12
MacCALDEN, M. S., JR.
Methods of distributing horizontal shear, diag. p18 Oct 17
MacISAAC, G. E.
Penstock sizing, graph. RC p15 Dec 5
McTIGUE, WILLIAM
Computers in pile driving. RC p6 Dec 19
MANN, RALPH H.
Old creosoted piles in New York harbor,*. RC p16 Sep 5
MARKS, C. R.
Dam designer joins Houston consulting firm. p84 Jul 18
MARTIN, NATHANIEL M.
Becomes director of bldg construction for HHFA,*. p342 Oct 17
MATTISON, BERWYN F.
Pennsylvania health officer becomes NYC Public Health Asso. secretary. p54 Dec 26
MAY, T. K.
Reduced lumber stresses. RC p9 Nov 7
McCLELLAN, JOHN L. (SEN.)
Condemns employers for anti-union activities. p151 Nov 14
McDONALD, GEORGE T.
New director, hwy and heavy construction div., AGC. p73 Jul 25
McKAY, D. W.
"Cementless" concrete. RC p8 Aug 29
McKILLOP, VERNON A.
*Outgoing president, Engineering Institute of Canada. p55 Jul 4
McNOWN, JOHN S.
Named new Dean of Engineering, Kansas U.,* p84 Jul 11
McSPEDON, HOWARD
Head of NY Bldg Trades dies. p76 Oct 17
MEANY, GEORGE see also: LABOR—AFL-CIO
Nominated as UN delegate,*. p81 Aug 29
MERRITT, FREDERICK S.
Mexico City earthquake reveals design and construction defects,**. p38 Aug 15
MILLER, G. W.
Obituary error: career item misplaced. RC p8 Jul 11
MILLER, JAMES
Hwy Dept. Salaries. RC p12 Nov 7
MILLER, M. T.
On anchor bolts, diag. RC p11 Sep 26
MIRICK, ROBERT F.
Superimposing drawings. RC p12 Oct 10
MITCHELL, WM. H.
June 6th salary article questioned. RC p10 Jul 18
MORAN, WILLIS T.
Cement authority retires from Reclamation's labs,*. p107 Nov 7
MORRIS, I. E.
When is design "right"? RC p13 Dec 12
MURPHY, ROBERT B.
School failure report not official. RC p12 Nov 28
MYSTKOWSKI, A.
Methods of distributing horizontal shear. RC p18 Oct 17
NEEDLES, ENOCH R.
To head Engineers Joint Council. CW p27 Oct 10
NELSON, JOHN I.
St. Lawrence excavation jobs were always tough. RC p10 Sep 5
NIEDERHOFF, A. E.
Japan's Tonopama arch dam,**. p59 Oct 3

O'SULLIVAN, LOUIS
Becomes commissioner in Quebec Hydro,*. p77 Sep 5
PARIS, MANUEL MADERO
Details of Laqueta project, Colombia. RC p11 Nov 28
PERKINS, ROBERT L.
Floating rig takes core samples in deep swift water,**. diag. p60 Sep 12
PFALSER, IVAN L.
Anchor bolt answers, diag. RC p11 Nov 21
PFEFFERLE, WARREN
Free-standing column stability analyzed. RC p9 Aug 1
PIERCE, CHARLES
Becomes assistant director, Coast and Geodetic Survey,* p75 Sep 26
PILSBURY, W. L.
Concrete replaces wood power poles,*. p41 Jul 25
POLLARD, W. S.
TV programs improve Memphis road public relations. RC p9 Aug 22
POOLE, BLUCHER A.
ORSANCO's new chairman for term ending July, 1958,* p54 Aug 1
QUARLES, DONALD A.
Receives ASCE award of merit. p59 Oct 31
RICHARDSON, JAMES K.
Retires as US Bureau of Reclamation Denver branch chief. p90 Nov 14
ROBERTS, A.
Sydney Engineering Club desires International contacts. RC p13 Dec 12
ROY, LEO
Becomes general manager, Quebec Hydro,*, p77 Sep 5
RUDOLPH, H. W.
Subcontractor surety bonds under the Miller Act. RC p11 Aug 8
RYAN, WILLIAM F.
Home air system. RC p12 Sep 19
SALTER, GEORGE S.
Filter rate of Chicago plant. RC p9 Oct 25
SALZMAN, MICHAEL H.
Where does groundwater come from. p32 Nov 28
SANDERS, WILBUR H.
Fires greater in old bldgs. RC p10 Jul 11
SARKARIA, G. S.
Penstocks sized quickly, graph, table. p78 Aug 15
SAVRAN, MANUEL
Anchor bolt answers, diag. RC p11 Nov 21
SCHEFFERMAN, NATHAN W.
Chicago labor consultant was principal target of Sen. McClellan,*. p151 Nov 14
SCHIFFER, SAMUEL
Private vs public power. RC p8 Aug 29
SCHUSTACK, EDWARD H.
Biggest pipe coupling at Garrison Dam, not Glendo Dam. RC p13 Dec 12
SEAL, BENJAMIN C.
Do-it-yourself sewer cost graphs. p311 Oct 17
SMITH, EDWARD A.
What happens when hammer hits pile, graphs. p46 Sep 5
SPENCER, CLYDE H.
Leaves Sacramento post in Bureau of Reclamation,* p75 Sep 27
SPEYER, IRWIN J.
Prestress Concrete Institute director's name omitted. RC p14 Sep 19
STARRETT, PAUL
Noted skyscraper builder dies. p30 Jul 11
STEIN, JOSEPH
First gold colored panels. RC p10 Dec 19
STROBEL, PETER A.
Enters consulting engineer partnership with P. I. Rongved. p90 Nov 14
SULLIVAN, DONALD J.
Methods of distributing horizontal shear. RC p12 Oct 17
SWAIN, ROBERT O.
English Channel Tunnel, editorial, informative, interesting. RC p11 Jul 4
THIEME, KLAUS
St. Lawrence Seaway excavation costs. RC p8 Jul 11
TOPPING, CHARLES H.
New Pres of Building Research Institute. p51 Aug 29
TURITZIN, ALEXANDER M.
Methods of distributing horizontal shear, diag. RC p12 Oct 17
TURNER, SCOTT
Named for 1957 Hoover Medal. p59 Oct 31
UPSON, MAXWELL M.
Raymond Concrete's boss 50 yrs at the top,*. p81 Nov 21
VERPILLOT, EMIL A.
N. Y. port engineer retires. p53 Jul 4
WAKEFIELD, J. W.
Becomes head of Florida Dept of Water Resources. p107 Nov 7
WALTER, CHRISTIAN
Anchor bolt answers, diag. RC p9 Nov 21
WATERS, A. R.
"Cementless" concrete. RC p8 Aug 29
WEIDLINGER, PAUL
Conoid with corrugations makes unusual roof,**, stress curves. p46 Dec 5
WHITMORE, GEORGE D.
Becomes chief topographical engineer, Geological Survey,*. p107 Nov 7
WILLIAMS, GORDON R.
Comments on Keiner Dam in Turkey. RC p8 Nov 14
WILSON, JAMES
Favors return to 1930 engineers salary progression. RC p8 Aug 1
Lift span records. RC p17 Nov 7
WISE, LARRY
Kings River project. p38 Aug 28, p51 Sep 19
WISMAR, LOUIS H.
50 yrs of ENR subscription. RC p10 Sep 12
WITTENMYER, R. F.
Building trusses analyzed, diag. p60 Aug 15
WOODRUFF, J. A.
Terms misused: asphaltic concrete contains no cement. RC p14 Jul 4
WOODRUFF, WARREN W.
Retires as JVA's division of power engineering and construction director,*. p90 Nov 14
WRIGHT, FRANK LLOYD
Suggests copper spray for Guggenheim exterior. CW p19 Jul 11
Design for Arizona capitol gains new supporters. p28 Jul 25
Ariz. capitol plans rejected. CW p17 Aug 1
Madison, Wisc., civic center plan blocked. CW p17 Sep 26
Career on the upgrade at 88,*. p108 Dec 5
YOUNG, EDWARD M.
Slow payments raise costs, lower profits for hwy contractors, table. p293 Oct 17

COMPANIES

AIR CONDITIONING CORP., BRONX, N. Y.
Air conditioner fits all convector heating systems,*. NP p87 Jul 11
AIR PLACEMENT EQUIPMENT CO., KANSAS CITY, MO.
Concrete gun model high production rate. NP p48 Aug 22
ALASKA SLEEPING BAG CO, PORTLAND, ORE.
Lightweight jacket made for use in cold weather. NP p94 Nov 7
ALLIS CHALMERS MFG CO, MILWAUKEE, WISC.
Medium range scraper,*. NP p76 Aug 22
ALUMINUM COMPANY OF AMERICA
Huge models will turn out king size tires,*. NP p70 Nov 21
AMERICAN CRUCIBLE PRODUCTS CO, LORAIN, OHIO
Kenco Pump Div. makes submersible pump with varied controls. NP p75 Nov 14
AMERICAN TRACTOR EQUIPMENT CORP., OAKLAND, CALIF.
Rock ripper for Emco tractor. NP p51 Oct 10
New loader has high break-out power,*. NP p58 Oct 24
AQUA SPORTSMAN INC, CINCINNATI, OHIO
Long-print holder for viewing blueprints. NP p47 Aug 29
AURORA PUMPS see: NEW YORK AIR BRAKE CO
BAKELITE CO. see: UNION CARBIDE CORP.
BENSON-LEHNER CORP, LOS ANGELES, CAL.
Electroplotter Model H—new automatic line plotter,* NP p69 Nov 21
BERGER, C. L. & SONS, BOSTON, MASS.
Wide frame tripods have bronze heads. NP p57 Sep 26
BETHLEHEM STEEL CO.
Prefab railing assembled by bolts,*. NP p47 Aug 29
BLAW-KNOX
Low grade gravel can be upgraded by bouncing,*. NP p87 Sep 12
BROS INC, MINNEAPOLIS, MINN.
Roller provides high density compaction,* NP p84 Dec 12
BRUSH ABOE INC, WOODSIDE, N. Y.
Lightweight diesel is versatile, economical,* NP p88 Dec 5
BRUNING (CHARLES) INC, CHICAGO, ILL.
Tracing paper allows drawing on both sides,*. NP p64 Sep 5
Adjustable survey monument can raise with roads. NP p81 Dec 12
BUCYRUS-ERIE
Mobile crane excavator designed for versatility,* NP p48 Dec 19
BUTLER BIN CO, WAUKESHA, WISC.
Cement rides on air in feeder mechanism. NP p47 Dec 26
CARGILL, INC.
Builds experimental steel structures for grain storage,* p33 Aug 1
CARLON PRODUCTS CORP, CLEVELAND, OHIO
Fast permanent joint for plastic conduit pipe. NP p78 Aug 22
CARRIER CORP., SYRACUSE, N. Y.
Two piece heat pump cuts costs and space. NP p73 Apr 25
CASE CO., RACINE, WISCONSIN
Detachable grousers increase loader production. NP p45 Aug 1
CATERPILLAR TRACTOR CO.
Reserve cable supply reel available for bulldozers. NP p45 Aug 1
Low bowl scraper designed for use with big tractor. NP p58 Oct 24
New testing lab,* p62 Oct 24
Boron-Alloy sprockets on D8 and D9. NP p89 Nov 7
Additions made to Transvator line,*. NP p90 Nov 7
CENTROMOR, WARSAW, POLAND
Powered by air piston, "mole" goes through soil. NP p88 Sep 12
CHAIN BELT CO., MILWAUKEE, WISC.
Steel road form has side locks.* NP p78 Nov 14
CHAMPION MANUFACTURING CO, ST. LOUIS, MO.
Small concrete saw has self propulsion,*. NP p76 Nov 14
CHESTER PRODUCTS CO, HAMILTON, OHIO
Self propelled machine offers speedy compaction. NP p75 Aug 22
CLEMENT-BRASWELL INC, SHREVEPORT, LA.
Dual dump trailers double the payload,*. NP p58 Oct 24
CLEVELAND CRANE & ENGINEERING CO, WICKLIFFE, OHIO
Hoist carrier features extra hoist for dumping. NP p81 Dec 12
C-THRU RULER CO, HARTFORD, CONN.
Architect-engineer scales available on flat plates,* NP p87 Jul 11
DANIEL CONSTRUCTION CO, GREENVILLE, S. C.
Largest South Carolina general contractors,*. p339 Oct 17
DAVEY COMPRESSOR CO, KENT, OHIO
Tractor mounted rotary air drill for heavy jobs,* NP p68 Aug 8
DAVIS ENGINEERING, BENTON HARBOR, MICH.
Hydraulic excavator has 40 mph road speed,*. NP p57 Sep 26
DENVER EQUIPMENT CO, DENVER, COLORADO
Stroke diaphragm pump adjustable in operation. NP p87 Jul 11
DESIGN-TECHNICS, NEW YORK, N. Y.
Three-dimensional tiles give walls design variety. NP p45 Aug 1
DORR-OLIVER INC, STAMFORD, CONN.
Vortex desanding system for well water unveiled,* NP p88 Jul 11
DRESSER INDUSTRIES, INC, DALLAS, TEX.
Proposes acquisition of Gardner-Denver Co., Quincy, Ill. p148 Nov 14
Dresser, Gardner-Denver merger plans cancelled. p145 Dec 12
DuPONT CONSTRUCTION
Scores perfect safety record for full year. p145 Jul 11
EAGLE IRON WORKS, DES MOINES, IOWA
Heavy media separator ready for aggregates. NP p54 Oct 31
EARTH EQUIPMENT CORPORATION, LOS ANGELES, CALIF.
Trencher is attachment for I-H utility tractor. NP p57 Jul 25
EASTMAN CHEMICAL PRODUCTS INC, KINGSPORT, TENN.
New adhesive has high bonding strength,*. NP p53 Oct 31
EASTON CAR AND CONSTRUCTION CO, EASTON, PA.
Heavy hauler adapted for on-hwy work,*. NP p90 Nov 7
ECONOMY FORMS CORP, DES MOINES, IOWA
Portable form cleaner wire brushes steel panels. NP p48 Dec 19
ELECTRONIC ASSOCIATES INC, LONG BRANCH, N. J.
Automatic line plotter.* NP p69 Nov 21
ELLICOTT MACHINE CORP, BALTIMORE, MD.
Portable dredge output up to 85 cu yd per hour. NP p64 Oct 3
EUCLID see: GENERAL MOTORS
EVANS RULE CO, ELIZABETH, N. J.
Steel measuring tape has tenths and eighths. NP p73 Sep 19
FAILING (GEORGE E.) CO., ENID, OKLA.
Weep-hole drill designed to reduce slides,*. NP p53 Oct 10
FAIRFIELD ENGINEERING CO., MARION, OHIO
Bucket elevator line adds new high capacity series. NP p61 Oct 3
FENNEL INSTRUMENT CORP, LONG ISLAND CITY, N. Y.
Planimeter sets to zero at touch of button. NP p47 Aug 29
FITCH INSTRUMENTS, INC., POTTSTOWN, PA.
*Trigulator for solving triangles. NP p57 Jul 25
FORD MOTOR CO.
Tractor and Implement Division puts up most powerful tractors.* NP p85 Dec 5
FORSTER MFG CO, ADA, OKLA.
Cement silo unloads barrels fast. NP p57 Sep 26
FOX RIVER TRACTOR CO., APPLETON, WIS.
Quick mounting spreader converts dump truck,*. NP p75 Aug 22
FOUR WHEEL DRIVE AUTO CO, CLINTONVILLE, WIS.
Carrier line for construction industry features one-man cab. NP p45 Jul 4
GENERAL ANILINE AND FILM CORP, JOHNSON CITY, N. Y.
Illuminated tracing unit is made portable. NP p47 Aug 29
GENERAL ELECTRIC CO.
Lamp installation develops 1000 ft-c lighting level,* NP p88 Aug 15
Radio telephone has 2-way dial system. NP p75 Nov 14
GENERAL MOTORS
Front-end loader announced by Euclid. NP p78 Nov 14
GEOPHYSICAL SPECIALTIES CO, MINNEAPOLIS, MINN.
Lightweight seismograph for subsurface exploration.* NP p45 Aug 1
GFB, SPECIAL FILING SYSTEMS OF AMERICA, NEW YORK, N. Y.
GABS Vertical file holds 2,000 drawings,*. NP p45 Aug 1
GIBBS AND HILL
B. Lothak becomes chief engineer,* p52 Dec 19
GOODYEAR TIRE & RUBBER CO, AKRON, OHIO
Tractor travels on cylindrical tires,* NP p59 Oct 24
GRANCO STEEL PRODUCTS, ST. LOUIS, MO.
Guard rail for bridges and highways,* NP p85 Dec 5
GRAYBILL INDUSTRIES INC, SPOKANE, WASH.
Portable mixer wheeled onto jobsite,*. NP p81 Dec 12

GURRIES MFG CO, SAN JOSE, CALIF.
*Tiny scraper built for small tractors. NP p45 Jul 4
HAAGEN CHEMICALS & CONTROLS, PITTSBURGH, PA.
Chemical cuts corrosion from salt treated slush. NP p57 Sep 27
HARDY (GEORGE) LTD, AJAX, ONTARIO, CANADA
Filing of bankruptcy writ halts construction. p144 Sep 12
HARRIS, INC, NEW YORK CITY
Newly-merged firm of Chaney & Harris to specialize in marine design. p132 Jul 25
HENDERSON MFG CO, CEDAR RAPIDS, IOWA
Simplified spreader rig aids in control of ice.*. NP p47 Aug 29
HOWE SCALE CO, RUTLAND, VT.
No pit needed for portable scale.* NP p46 Dec 5
INDUSTRIAL PRODUCTS CO, PHILADELPHIA, PA.
Winter liner for use inside safety helmets.* p47 Dec 26
INSLEY MFGTRG CORP, INDIANAPOLIS, IND.
Crane specially designed for stationary mounting. NP p63 Oct 3
INTERNATIONAL BUSINESS MACHINES CORP., NEW YORK, N. Y.
Small computer marks departure from punched card system.*. NP p75 Nov 14
INTERNATIONAL HARVESTER CO., CHICAGO, ILL.
Tractor offers better trailer-truck maneuvers. NP p54 Oct 31
Power loader for utility tractors,*. NP p81 Dec 12
IOWA MANUFACTURING CO.
Water-aggregate mixer for base stabilization. NP p47 Dec 26
JOY MANUFACTURING CO., PITTSBURGH, PA.
Crawler equipment for tunnel and shaft work. NP p59 Oct 24
*Blast hole drill. NP p72 Nov 21
KALWALL CORPORATION, MANCHESTER, N.H.
Curtain wall panels faced with translucent plastic,* NP p57 Jul 25
KARP (A. LAWRENCE), GREENWICH, CONN.
Templet kit for steel detailing profiles,*. NP p69 Aug. 8
KENCO PUMP DIV. see: AMERICAN CRUCIBLE PRODUCTS CO.
KENWORTH MOTOR TRUCK CO, SEATTLE, WASH.
Biggest rear dump rock movers,* NP p61 Oct 3
KETCHUM & KONKEL, DENVER, COLO.
Thin shell structures designers build own Thin roofed HQ.*. p144 Sep 12
KOEHRING CO, MILWAUKEE, WISC.
Powered concrete buggy serves as fork lift. NP p48 Dec 19
KOHLER CO, KOHLER, WISC.
Test core drill for hwy testing,* NP p89 Nov 7
KROGH PUMP & EQUIPMENT CO, SAN FRANCISCO, CALIF.
Heavy duty slurry pump features flexible liners. NP p64 Sep 5
KWIK MIX CO. see: KOEHRING CO.
LACROSSE TRAILER CORP, LACROSSE, WISC.
Low bed trailer,* NP p51 Oct 10
LARAMIE CHEMICAL CORP., STAMFORD, CONN.
Coin-size beam compass scribes 12-ft diameters,* NP p45 Aug 1
LE TOURNEAU, LONGVIEW, TEXAS
Jungle smasher to clear virgin lands,*. NP p54 Oct 31
LE TOURNEAU-WESTINGHOUSE
Tournapull has choice of transmissions, automatic lock-up clutch. NP p75 Nov 14
Low silhouette rear dump squats for easy loading.*. NP p49 Dec 19
LITTLE GIANT PRODUCTS INC, PEORIA, ILL.
EL-C broom sweeps in gutter and near curb,* NP p73 Sep 19
LONG, (GEORGE E.) CO, SEATTLE, WASH.
Grade stakes save time and money,* NP p47 Dec 26
LULL ENGINEERING CO, ST. PAUL, MINN.
Cyclone broom for clean sweep,*. NP p73 Sep 19
Mobile loader unit has extra high lift,*. NP p66 Oct 3
LUMMUS CO, NEW YORK, N. Y.
Sells its heat exchanger division. p106 Aug 8
MARQUETTE CEMENT MANUFACTURING CO.
First to sign with union; subcontractors classe no problem. p21 Jul 25
M-B CORP, NEW HOLSTEIN, WISC.
M-B broom provides two-way angling,*. NP p73 Sep 19
McCULLOUGH MOTORS CORP, LOS ANGELES, CALIF.
Lightweight chain saws have high power. NP p58 Oct 24
McKEE (ROBERT E.) CO, EL PASO, TEXAS
Contractor defeated in New Mexico tax invalidation attempt. p383 Oct 17
McLOUTH STEEL CORP, DETROIT, MICHIGAN
*Trenton steel plant to be expanded. p129 Jul 25
MIDLAND MFGTRG CO, COLUMBUS, OHIO
Device converts motor grader into compactor,*. NP p68 Aug 8
MILLER, DAVID & ASSOCIATES, BEVERLEY HILLS, CALIF.
Portable drafting tool fits in user's pocket.* NP p49 Dec 19
MONARCH FORGE & MACHINE WORKS, PORTLAND, ORE.
Heavy duty bar benders take up little space. NP p89 Nov 7
MONTACO MFG CORP, KANSAS CITY, MO.
Asphalt heater planer is safe.* NP p88 Sep 12
NEW YORK AIR BRAKE CO, AURORA, ILL.
Aurora Div makes new series of suction pumps. NP p70 Jul 18
OLIVER CORP, CHICAGO, ILL.
Crawler tractor added to line.* NP p70 Nov 22
OTIS ELEVATOR CO, NEW YORK CITY
Awarded record-setting contract for Chase Manhattan Bank CW p19 Jul 11
PACIFIC GAS & ELECTRIC CO.
New pipeline to run from Canada to California. p24 Aug 1
PATTERSON ENGINEERING CO, LONDON, ENGLAND
Slide rule designed for water calculations. NP p53 Oct 31
PEERLESS COLONIAL PRODUCTS, IVORYTON, CONN.
Diazo rotary printer made in two capacities,*. NP p63 Oct 5
PERINI CORP, FRAMINGHAM, MASS.
College boys trained to become construction supers.*. p145 Nov 7
PERFO DIV see: SIKA CHEMICAL CORP.
PIONEER ENGINEERING, MINNEAPOLIS, MINN.
Portable screening plants,*. NP p69 Nov 21
PLAN HOLD CORP, SOUTH GATE, CALIF.
Clamps support plans on table during use,* NP p94 Nov 7
PLASTIC PIPE DIVISION see: REPUBLIC STEEL CORP.
PLYDOMES INC, DES MOINES, IOWA
Plywood sheets make frameless dome,* NP p65 Sep 5
POWER TOOLS CORP, CLEVELAND, OHIO
Double action drill gives impact and rotary motion,* NP p75 Aug 22
PRECISION CONTROLS CO, MINNEAPOLIS, MINN.
Power steering unit goes on any motor grader NP p89 Nov 7
PRECO INC, LOS ANGELES, CALIF.
Automatic blade control aids grading operation NP p82 Dec 12
PRESS (JACOB) SONS, CHICAGO, ILL.
Dump body for sand and gravel haulage. NP p57 Sep 26
PRESTO BRICK MACHINE CORP, NEW YORK CITY
Pacer twin wall block unit joined by iron ties.* NP p90 Jul 11
RANSOME CORP, PHILADELPHIA, PA
Tractor-shovel ripper,*. NP p72 Nov 21
RAYMOND CONCRETE PILE
M. M. Upson 50 yrs at the top,*. p82 Nov 21
REISSER CORP, BLAIR, NEB.
Colly converts tournapull for road travel,*. NP p75 Aug 22
RELIANCE STEEL PRODUCTS CO, McKEESPORT, PA.
Resinous cement coating helps skid-proof roads NP p82 Dec 12
REPUBLIC STEEL CORP.
Pipe Division makes plastic coated steel pipe.* NP p46 Dec 26
ROGERS CONSTRUCTION CO, SAN DIEGO, CALIF.
Firm declares bankruptcy. p148 Nov 14
SALSBURY CORP, LOS ANGELES, CALIF.
Tire spreaders speed changing of big tires,*. NP p57 Sep 26
SAN FRANCISCO BRIDGE CO, CALIF.
Dredging company dissolved after 73 yrs. p147 Nov 7
SCHORI PROCESS CORP, LONG ISLAND CITY, N. Y.
Zinc spray protects steel from corrosion,* p70 Jul 18
SCHRAMM INC, WEST CHESTER, PA.
Truck-mounted rotary drill is mobile, fast,* NP p45 Jul 4
SEAMAN-GUNNISON CORP, CHICAGO, ILL.
Small scraper incorporates classifier,*. NP p76 Aug 22
SEAMAN-AND-WALL CORP., MILWAUKEE, WISC.
Spreader doubles for aggregate, ice control. NP p47 Dec 26
SHERMAN PRODUCTS, INC, ROYAL OAK, MICH.
Power digger designed for Ford tractor line,* NP p45 Jul 4
SIKA CHEMICAL CORP, PASSAIC, N. J.
Swedish roof bolting system,* NP p80 Aug 1
SILENT KNIGHT CO, CINCINNATI, OHIO
Square shaped manhole lid,*. NP p82 Dec 12
SILICONE DIVISION see: UNION CARBIDE CORP.
SIMS (J. FRANK) CAB CO, HOLDEN, MASS.
All weather cab fits popular make tractors,*. NP p59 Oct 24
SOILTEST INC, CHICAGO, ILL.
Consistency of fresh concrete measured by ball penetration device,* NP p76 Nov 14
SOUTHWEST WELDING & MFG CO, ALHAMBRA, CAL.
Roller offers uniform vertical compaction,*. NP p88 Sep 12
STANDARD STEEL CORP, LOS ANGELES, CALIF.
Asphalt plant for hard to reach places,* NP p86 Dec 5
STOW MANUFACTURING CO, BINGHAMTON, N. Y.
Portable space heater can warm large areas. NP p59 Oct 24
STROBEL & RONGVED, NEW YORK, N. Y.
New consulting firm formed. p90 Nov 14
SUMO PUMPS INC, STAMFORD, CONN.
50 hp units added to submersible pumps line. NP p73 Sep 19
Submersible pump handles 20% solids,*. NP p54 Oct 31
SUPERIOR CONCRETE ACCESSORIES, FRANKLIN PARK, ILL.
Special device for positioning seven prestress cables.* NP p78 Aug 29
SUPERIOR EQUIPMENT CO, BUCYRUS, OHIO
Crawler mounted erector does many jobs,* NP p74 Sep 19
SWANSON MFG CO, SAN DIEGO, CALIF.
Motor grader attachment speeds finish grading.* NP p64 Sep 5
SWEDISH-AMERICAN INDUSTRIES, INC, ENGLEWOOD, COLORADO
Durox concrete plus aluminum. NP p90 Jul 11
SYMONS CLAMP & MFG CO, CHICAGO, ILL.
Mold and wood panels will make a culvert form. NP p68 Aug 8
TESTLAB CORP, CHICAGO, ILL.
New firm for lab and field materials testing equipment. p51 Aug 29
TEXAS-ASIATIC IMPORT CO, DALLAS, TEXAS
Japanese transit available in U. S. NP p85 Dec 5
THEW SHOVEL CO.
Heavy duty crane added to Lorain line. NP p69 Aug 8
Front end loader enters field,*. NP p89 Nov 7
Power controls simplified for crawler crane rig. NP p84 Dec 12
TISHMAN REALTY & CONSTRUCTION CO, INC.
*Plan 21-story Cleveland skyscraper. p137 Jul 11
TURNER CONSTRUCTION CO, NEW YORK, N. Y.
Building cost table. p278 Oct 17 and correction p79 Oct 24
UNION CARBIDE CORP, NEW YORK, N. Y.
Silicone rubber tapes stick to themselves but not to touch. NP p53 Oct 31
UTAH CONSTRUCTION CO.
Reputation, efficiency win Australian bridge contract. p74 Sep 5
VICTAULIC CO OF AMERICA, ELIZABETH, N. J.
Quick coupling system uses grooved pipe end. NP p73 Sep 19
VIKING INSTRUMENTS, EAST HADDAM, CONN.
Boom spot indicator will aid close work.*. NP p86 Aug 15
WAIN-ROY CORP, HUBBARDSTON, MASS.
Versatile backhoe model for Int Harvester tractor. NP p51 Oct 10
WALKER PROCESS EQUIPMENT, INC, AURORA, ILL.
Air pump line designed for low lift applications. NP p57 Jul 25
WALLACE & TIERNAN INC, BELLEVILLE, N. J.
Market chlorinator which adjusts to demand and flow,*. diag. NP p69 Jul 18
Chlorinator can handle 8,000 lb in 24 hrs. NP p74 Sep 19
WHITE (DAVID) INSTRUMENT CO, MILWAUKEE, WISC.
Light wood target rod locks in any position. NP p64 Sep 5
WINK CORP, MILWAUKEE, WISC.
Lightweight diamond drill takes 6 in. cores. NP p73 Sep 19